# Harvard T.H. Chan School of Public Health Course Catalog Preview

## Division of Biological Science

### Subject: Interdepartmental

#### Interdepartmental 229 Section: 1

Innovative Techniques and Experimental Design for Biologists (224683)

Zachary Nagel

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| 2025 Spring (2.5 Credits) | | Schedule: | TR 0330 PM - 0500 PM |
| Instructor Permissions: | Instructor | Enrollment Cap: | 30 |

There are constantly new and improved experimental techniques being developed for biological science research. In this course, each week two experts in their fields (one per class) will introduce you to a cutting-edge technique and show how they are being applied at HSPH. Each class session you will also discuss a paper chosen by guest lecturer, allowing you to practice critical reading and evaluate different types of experimental designs. This course will both fulfill reading course credits (for BPH students) and better prepare you for your future thesis work.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Biostatistics

### Subject: Computational Biol and Quant G

#### Computational Biol and Quant G 325 Section: 1

CBQG Collaborative Research Thesis (190143)

John Quackenbush

Peter Kraft

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|---|---|---|---|
| 2025 Spring (0 Credits) | | Schedule: | TBD |
| Instructor Permissions: | Instructor | Enrollment Cap: | n/a |

This course provides students with valuable real-world experience doing research in Boston's premier biomedical institutions. Students are mentored by a member of the program faculty or other affiliated quantitative scientist working in clinical and epidemiological research projects at HSPH, Harvard University, or Harvard-affiliated hospitals.

The Collaborative Research Thesis will normally be undertaken during the fourth (spring) semester, after coursework has been completed. It will be presented in both oral and written form before a committee consisting of the thesis advisor and two additional program faculty. Students with a more extensive background may be permitted to undertake their thesis research during the summer following their second semester, and complete the entire program in as little as 16 months.

Students in the program must complete a 10-20 credit thesis, and so could register for this course possibly 2 to 4 times to achieve the total number of credits. Only students in this program are eligible to register for this course.

Requirements: Course Restricted: Students in the CBQG SM2 program

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Computational Biol and Quant G 325 Section: 2

CBQG Collaborative Research Thesis (190143)

John Quackenbush

Peter Kraft

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: 1

This course provides students with valuable real-world experience doing research in Boston's premier biomedical institutions. Students are mentored by a member of the program faculty or other affiliated quantitative scientist working in clinical and epidemiological research projects at HSPH, Harvard University, or Harvard-affiliated hospitals.

The Collaborative Research Thesis will normally be undertaken during the fourth (spring) semester, after coursework has been completed. It will be presented in both oral and written form before a committee consisting of the thesis advisor and two additional program faculty. Students with a more extensive background may be permitted to undertake their thesis research during the summer following their second semester, and complete the entire program in as little as 16 months.

Students in the program must complete a 10-20 credit thesis, and so could register for this course possibly 2 to 4 times to achieve the total number of credits. Only students in this program are eligible to register for this course.

Requirements: Course Restricted: Students in the CBQG SM2 program

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Computational Biol and Quant G 325 Section: 3

CBQG Collaborative Research Thesis (190143)

John Quackenbush

Peter Kraft

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

This course provides students with valuable real-world experience doing research in Boston's premier biomedical institutions. Students are mentored by a member of the program faculty or other affiliated quantitative scientist working in clinical and epidemiological research projects at HSPH, Harvard University, or Harvard-affiliated hospitals.

The Collaborative Research Thesis will normally be undertaken during the fourth (spring) semester, after coursework has been completed. It will be presented in both oral and written form before a committee consisting of the thesis advisor and two additional program faculty. Students with a more extensive background may be permitted to undertake their thesis research during the summer following their second semester, and complete the entire program in as little as 16 months.

Students in the program must complete a 10-20 credit thesis, and so could register for this course possibly 2 to 4 times to achieve the total number of credits. Only students in this program are eligible to register for this course.

Requirements: Course Restricted: Students in the CBQG SM2 program

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

# Subject: Biostatistics

## Biostatistics 210 Section: 1

Applied Regression Analysis (190025)

Tanayott Thaweethai

2025 Spring (5 Credits) Schedule: TR 0800 AM - 0930 AM

Instructor Permissions: None Enrollment Cap: 77

Topics include model interpretation, model building, and model assessment for linear regression with continuous outcomes, logistic regression with binary outcomes, and proportional hazards regression with survival time outcomes. Specific topics include regression diagnostics, confounding and effect modification, goodness of fit, data transformations, splines and additive models, ordinal, multinomial, and conditional logistic regression, generalized linear models, overdispersion, Poisson regression for rate outcomes, hazard functions, and missing data. The course will provide students with the skills necessary to perform regression analyses and to critically interpret statistical issues related to regression applications in the public health literature.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | PhD PHS
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing

Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM

Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM

Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Prerequisite: ID201 or BST201 or (BST202 and BST203) or (BST206 and (BST207 or 208))

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |

## Biostatistics 210LAB Section: 1

Applied Regression Analysis - Required LAB (213472)

Tanayott Thaweethai

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|---|---|---|---|
| 2025 Spring (0 Credits) | | Schedule: | R 0345 PM - 0515 PM |
| Instructor Permissions: | None | Enrollment Cap: | 25 |

Topics include model interpretation, model building, and model assessment for linear regression with continuous outcomes, logistic regression with binary outcomes, and proportional hazards regression with survival time outcomes. Specific topics include regression diagnostics, confounding and effect modification, goodness of fit, data transformations, splines and additive models, ordinal, multinomial, and conditional logistic regression, generalized linear models, overdispersion, Poisson regression for rate outcomes, hazard functions, and missing data. The course will provide students with the skills necessary to perform regression analyses and to critically interpret statistical issues related to regression applications in the public health literature.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | PhD PHS
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students are required to enroll in both BST 210 and BST 210LAB.

To enroll in a section of BST 210 LAB, students must first enroll in BST 210.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |

## Biostatistics 210LAB Section: 2

Applied Regression Analysis - Required LAB (213472)

Tanayott Thaweethai

| | | | |
|---|---|---|---|
| 2025 Spring (0 Credits) | | Schedule: | R 0530 PM - 0700 PM |
| Instructor Permissions: | None | Enrollment Cap: | 25 |

Topics include model interpretation, model building, and model assessment for linear regression with continuous outcomes, logistic regression with binary outcomes, and proportional hazards regression with survival time outcomes. Specific topics include regression diagnostics, confounding and effect modification, goodness of fit, data transformations, splines and additive models, ordinal, multinomial, and conditional logistic regression, generalized linear models, overdispersion, Poisson regression for rate outcomes, hazard functions, and missing data. The course will provide students with the skills necessary to perform regression analyses and to critically interpret statistical issues related to regression applications in the public health literature.

Class Notes:

THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | PhD PHS
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements:

Students are required to enroll in both BST 210 and BST 210LAB.

To enroll in a section of BST 210 LAB, students must first enroll in BST 210.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Biostatistics 210LAB Section: 3

Applied Regression Analysis - Required LAB (213472)

Tanayott Thaweethai

2025 Spring (0 Credits) Schedule: F 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 25

Topics include model interpretation, model building, and model assessment for linear regression with continuous outcomes, logistic regression with binary outcomes, and proportional hazards regression with survival time outcomes. Specific topics include regression diagnostics, confounding and effect modification, goodness of fit, data transformations, splines and additive models, ordinal, multinomial, and conditional logistic regression, generalized linear models, overdispersion, Poisson regression for rate outcomes, hazard functions, and missing data. The course will provide students with the skills necessary to perform regression analyses and to critically interpret statistical issues related to regression applications in the public health literature.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | PhD PHS
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students are required to enroll in both BST 210 and BST 210LAB.

To enroll in a section of BST 210 LAB, students must first enroll in BST 210.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Biostatistics 212 Section: 1

Survey Research Methods in Community Health (190027)

Thomas Mangione

2025 Spring (2.5 Credits) Schedule: W 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 25

Covers research design, sample selection, questionnaire construction, interviewing techniques, the reduction and interpretation of data, and related facets of population survey investigations. Focuses primarily on the application of survey methods to problems of health program planning and evaluation. Treatment of methodology is sufficiently broad to be suitable for students who are concerned with epidemiological, nutritional, or other types of survey research.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |

## Biostatistics 214 Section: 1

Principles of Clinical Trials (190029)

David Wypij

2025 Spring (2.5 Credits) Schedule: MW 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 75

Designed for individuals interested in the scientific, policy, and management aspects of clinical trials. Topics include types of clinical research, study design, treatment allocation, randomization and stratification, quality control, sample size requirements, patient consent, and interpretation of results. Students design a clinical investigation in their own field of interest, write a proposal for it, and critique recently published medical literature.

Course Prerequisites: BST201 or ID201 or (BST202 & 203) or [BST206 & (BST207 or 208)] or PHS 2000A.

Requirements: Pre-requisties: BST201 or ID201 or (BST202 & 203) or [BST206 & (BST207 or 208)] or PHS2000A

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Biostatistics 215 Section: 2

Linear and Longitudinal Regression (190112)

Garrett Fitzmaurice

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 45

This course is intended for students who are already very comfortable with fundamental techniques in statistics. The course will cover methods for building and interpreting linear regression models, including statistical assumptions and diagnostics, estimation and testing, and model building techniques. These models will be extended to handle data arising from longitudinal studies employing repeated measurement of subjects over time. Lectures will be accompanied by computing exercises using the Stata statistical package.

When offered in Summer: Restricted to HSPH degree or PCE students. Due to overlapping content, students may not enroll in this course after taking BST 226 in the spring without instructor permission.

When offered during the Academic Year: Students enrolled in the MPH-EPI program have priority enrollment in this course. MPH-GEN students will be automatically added to the waitlist. All other students must request instructor permission with priority of permission granted to students in a summer-only/summer focused program.

Class Notes: Students enrolled in the MPH-EPI program have priority enrollment in this course. MPH-GEN students will be automatically added to the waitlist. All other students must request instructor permission with priority of permission granted to students in a summer-only/ summer focused program. Students will be enrolled into the course (if space available) according to the following waves:

THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH-EPI
Wave 2 | MPH-EPI and MPH-GEN
Wave 3 | MPH-EPI, MPH-GEN, and all other students with approved petitions

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59

PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Requirements: Course Prerequisites: EPI522 or BST201 or ID201 or ID207 or BST202&203 or BST206&207 or BST206&208.
Restriction: MPH-EPI students have priority enrollment. MPH-GEN will be automatically added to the waitlist. Others must request instructor permission

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Program Affiliation | MPH-EPI |

## Biostatistics 216 Section: 1

Introduction to Quantitative Methods for Monitoring and Evaluation (190118)

Bethany Hedt-Gauthier

2025 Spring (2.5 Credits) Schedule: MW 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 50

Monitoring and evaluation is concerned with assessing the quality of a program as measured against action plans, and evaluating its overall impact. This course addresses the quantitative or statistical aspects of monitoring and evaluation: what to measure, how to measure, how to analyze and how to make inference for the next steps of program implementation. The course covers quantitative components of M&E, both current and innovative methods, and complements GHP 251 which describes the conceptual framework for M&E.

Requirements: Prerequisite: ID201 or BST201 or PHS2000A or (BST202 & BST203) or [BST206 & (BST207 or BST208 )].

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Biostatistics 217 Section: 1

Statistical and Quantitative Methods for Pharmaceutical Regulatory Science (190134)

Marcia Testa

2025 Spring (2.5 Credits) Schedule: TR 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 30

The goal of this course is to enable scientists and public health professionals who already have an introductory background in biostatistics and clinical trials to acquire the competencies in quantitative skills and systems thinking required to understand and participate in drug development and regulatory review processes. The course illustrates how statistical and quantitative methods are used to transform information into evidence demonstrating the safety, efficacy and effectiveness of drugs and devices over the course the product's life cycle from a regulatory perspective. Content is delivered using a blended-learning approach involving lectures, web-based media and selected case study examples derived from actual FDA decision-making and regulatory assessments to highlight and describe each phase of the regulatory drug approval process. Case studies will illustrate regulatory science in action and practice and will include content publicly available from the FDA's website that can be used in conjunction with FDA science-based guidances and decision precedents.

Requirements: Prerequisite: PHS2000A or ID201 or BST201 or (BST202 & BST203) or [BST206 & (BST207 or BST208)]

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Biostatistics 221 Section: 1

Applied Data Structures and Algorithms (219617)

Christoph Lange

Georg Hahn

2025 Spring (5 Credits) Schedule: MW 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 50

Introduction to important computational problems in biostatistics and state-of-the-art algorithms for solving them. The course focuses on the implementation of data structures and algorithms to solve problems of practical relevance.

Class Notes: BST 221 is the Applied section of Data Structures and Algorithms. It is not open to cross-registrants. Any non-HSPH students who are interested in this class may petition to enroll in BIOSTAT 234: Introduction to Data Structures and Algorithms (FAS). BIOSTAT 234 is the Theoretical section of Data Structures and Algorithms and is geared toward PhD students.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |
| eForm Autosubmitter | Auto Submitter |

## Biostatistics 223 Section: 1

Applied Survival Analysis (190040)

Harrison Reeder

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|---|---|---|---|
| 2025 Spring (5 Credits) | | Schedule: | TR 0945 AM - 1115 AM |
| Instructor Permissions: | None | Enrollment Cap: | 100 |

BST 223 is a course on survival analysis, or more generally time-to-event analysis, with the primary audience being graduate students pursuing a Master's degree in biostatistics or a PhD in one of the other departments at the Harvard Chan School. Covered in the course will be: an introduction to various types of censoring and truncation that commonly arise; the mathematical representations of time-to-event distributions, such as via the hazard and survivor functions; nonparametric methods such as Kaplan-Meier estimation of the survivor function and log-rank test for hypothesis testing; semi-parametric and parametric regression modeling techniques, such as the Cox model, the accelerated failure time model, the additive hazards model and cure fraction models; survival analysis within the causal inference paradigm; the analysis of competing and semi-competing risks; outcome-dependent sampling schemes, such as nested case-control and case-cohort designs; and, power/sample size calculations for studies with time-to-event endpoints. Throughout, equal emphasis will be given to the theoretical/technical underpinnings of survival analysis and to the use of real world data examples. Coding examples and course support will focus on the statistical software R.

Course Prerequisite(s): BST210 or BST213 or BST 232 or BST 260 or PHS2000A

Course Note: lab or section times to be announced at first meeting.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | BIO SM60 / BIO SM1 / BIO SM2 / CBQG SM2 / HDS SM60
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Prerequisite: BST210 or BST213 or BST232 or BST260 or PHS2000A.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

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## Biostatistics 226 Section: 1

Applied Longitudinal Analysis (190043)

Garrett Fitzmaurice

2025 Spring (5 Credits) Schedule: TR 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 125

This course covers modern methods for the analysis of repeated measures, correlated outcomes and longitudinal data, including the unbalanced and incomplete data sets characteristic of biomedical research. Topics include an introduction to the analysis of correlated data, analysis of response profiles, fitting parametric curves, covariance pattern models, random effects and growth curve models, and generalized linear models for longitudinal data, including generalized estimating equations (GEE) and generalized linear mixed effects models (GLMMs).

Course Activities: Homework assignments will focus on data analysis in R using functions from the nlme, lme4, and geepack packages.

Course Note: Lab or section times will be announced at first meeting.

If you are planning to use a current Fall course to satisfy the prerequisites for BST 226, and you have not yet received a grade for that course, you will need to request instructor permission. Please state in your request which course you are currently taking to meet the prerequisite. Permission requests without an accompanying note will not be granted. Please note that an approved petition does not automatically enroll students into the course; students must return to my.Harvard to finalize enrollment after their petition has been approved.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | BIO SM60 / HDS SM60 / BIO SM2 / BIO SM1 / CBQG SM2
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing

Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Prerequisite: BST210 or BST213 or BST232 or BST260 or PHS2000A

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Biostatistics 231 Section: 1

Statistical Inference I (190048)

Rui Wang

2025 Spring (5 Credits) Schedule: MW 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 10

A fundamental course in statistical inference. Discusses general principles of data reduction: exponential families, sufficiency, ancillarity and completeness. Describes general methods of point and interval parameter estimation and the small and large sample properties of estimators: method of moments, maximum likelihood, unbiased estimation, Rao-Blackwell and Lehmann-Scheffe theorems, information inequality, asymptotic relative efficiency of estimators. Describes general methods of hypothesis testing and optimality properties of tests: Neyman-Pearson theory, likelihood ratio tests, score and Wald tests, uniformly and locally most powerful tests, asymptotic relative efficiency of tests.

Course Note: Lab or section times to be announced at first meeting; cross-listed: Harvard Chan Students must register for the Harvard Chan course.

Course Prerequisite(s): BST230

Requirements: Prerequisite: BST230 (Concurrent Enrollment Allowed)

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |

## Biostatistics 233 Section: 1

Methods II (190050)

Sebastien Haneuse

2025 Spring (5 Credits) Schedule: MW 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 10

BST 233 is an intermediate-level graduate course in the analysis of continuous, categorical, and time-to-event response data, with a focus on regression modeling as a tool for data analysis. While most of the presentation will be from the frequentist perspective, estimation and inference from the Bayesian perspective will be also be presented for select topics. Specific topics include: Heteroskedastic continuous response data; Theory of generalized linear models; Analysis of binary response data; Analysis of count response data; Analysis of multinomial response data; Analysis of time-to-event response data; Basis methods.

Course Prerequisites: BST 230 and BST 232; or instructor's permission

Requirements: Prerequisite: BST 230 & BST 232

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |

## Biostatistics 236 Section: 1

Computing I (225021)

Junwei Lu

2025 Spring (5 Credits) Schedule: TR 0800 AM - 0930 AM

Instructor Permissions: Instructor Enrollment Cap: 24

This is an introductory graduate-level course focusing on statistical computing. It seamlessly blends critical programming and statistical computing concepts, designed to complement the collaborative and reproducible biostatistics research. The curriculum covers a wide array of topics, including (1) optimization techniques such as Gradient Descent (GD), Stochastic Gradient Descent (SGD), Newton's Method, Alternating Direction Method of Multipliers (ADMM), and constrained optimization; (2) sampling methods like Importance Sampling, Markov Chain Monte Carlo (MCMC), Langevin Dynamics, and stable diffusion alongside foundational linear algebra applications through QR and Cholesky Decomposition, and (3) dynamic programming. Beyond the algorithm aspects, the course emphasizes practical skill development, from coding proficiency and essential best practices to the use of computational tools such as Cluster and Linux environments, Git for version control, and techniques for reproducible research using RMarkdown and

Jupyter Notebooks. It also covers software development practices with a focus on developing R packages, visualization and web design to effectively communicate findings, and exploring innovative coding approaches, including automation through advanced tools like ChatGPT. This comprehensive course is designed to equip students with the necessary tools and knowledge for navigating the complexities of statistical computing, with a strong emphasis on practical skills like reproducible research, effective coding practices, and the utilization of modern computational tools.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Biostatistics 238 Section: 1

Advanced Topics in Clinical Trials (190055)

David Wypij

2025 Spring (2.5 Credits) Schedule: MW 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 25

This course will focus on selected advanced topics in the design, analysis, and interpretation of clinical trials, including study design; choice of endpoints (including surrogate endpoints); interim analyses and group sequential methods; subgroup analyses; and meta-analyses.

Course Note: lab or section times to be announced at first meeting; cross-listed: Harvard Chan Students must register for the Harvard Chan course.

Requirements: Prerequisite: (BST214 or BST214S) and BST222. Concurrent enrollment allowed for BST214 and BST222, but not for BST214S.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 3: Essential Course |

## Biostatistics 244 Section: 1

Analysis of Failure Time Data (190059)

L. Wei

2025 Spring (5 Credits) Schedule: MW 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 10

Discusses the theoretical basis of concepts and methodologies associated with survival data and censoring, nonparametric tests, and competing risk models. Much of the theory is developed using counting processes and martingale methods. Material is drawn from recent literature.

Course Prerequisite(s): BST231 and BST 232
Course Note: lab or section times to be announced at first meeting; cross-listed: Harvard Chan Students must register for the Harvard Chan course.

Requirements: Pre-requisties: BST231 and BST 232

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Biostatistics 258 Section: 1

Causal Inference: Theory and Practice (223902)

Nima Hejazi

2025 Spring (5 Credits) Schedule: TR 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 10

Randomized experimentation is the standard for quantifying the causal effect of an intervention in the public health and biomedical sciences, yet randomization may be impossible, impractical, or unethical, leading to real-world scenarios in which causal inferences are based upon observational comparisons. This course reviews the foundations of causal inference in (bio)statistics, outlining causal-analytic methods that help to extract as much evidence as imperfect observational studies carry about causal effects commonly of interest in applied health science settings. This survey of statistical causal inference begins with foundational concepts: the potential outcomes framework and counterfactual random variables, graphical modeling frameworks, and common assumptions and strategies for the identification of the causal effects of static and dynamic interventions. Methodological extensions for studying the causal effects of time-varying, longitudinal interventions will be touched upon as well. Further topics to be addressed may include instrumental variables approaches, principal stratification, causal mediation analysis, treatment effect heterogeneity, the causal dose-response curve, and causal survival analysis. This course may also introduce elements of semi-parametric theory necessary for the development of asymptotically efficient estimators of causal effect estimands. Where possible, the role of modern regression (i.e., machine learning) techniques and tools for the practical estimation of causal effect estimands will be emphasized.

Requirements: Pre-requisites: BST 231 & BST 232 or Instructor Permission

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Biostatistics 261 Section: 1

Data Science II (203514)

Santiago Romero-Brufau

2025 Spring (2.5 Credits) Schedule: MW 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 50

This course is an introduction to deep learning, a branch of machine learning concerned with the construction, development, and application of neural networks. Deep learning algorithms extract layered high-level representations of data in a way that maximizes performance on a given task. We will cover a range of topics including basic neural networks, convolutional networks, and recurrent networks, and applications to problem domains like computer vision and speech recognition. Programming (Python) and case studies will be used throughout the course to provide hands-on training in these concepts.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | SM60-HDS
Wave 2 | BIO SM2 / BIO SM60 / BIO SM1 / CBQG SM2
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Prerequisite: BST260

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Biostatistics 263 Section: 1

Statistical Learning (205330)

Brent Coull

2025 Spring (5 Credits) Schedule: TR 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 64

Statistical learning is a collection of flexible tools and techniques for using data to construct prediction algorithms and perform exploratory analysis. This course will introduce students to the theory and application of methods for supervised learning (classification and regression) and unsupervised learning (dimension reduction and clustering). Students will learn the mathematical foundations underlying the methods, as well as how and when to apply different methods. Topics will include the bias-variance tradeoff, cross-validation, linear regression, logistic regression, KNN, LDA/QDA, variable selection, penalized regression, generalized additive models, CART, random forests, gradient boosting, kernels, SVMs, PCA, and K-means. Homework will involve mathematical and programming exercises, and exams will contain conceptual and mathematical problems. Programming in R will be used throughout the course to provide hands-on training and practical examples.

Prerequisites: BST 260 or BST 210 or BST 232 or PHS 2000A.

Course Note: lab or section times to be announced at first meeting.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | SM60-HDS
Wave 2 | BIO SM2 / BIO SM60 / BIO SM1 / CBQG SM2
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00AM – 1/19/2025 11:59PM
Wave 2 | 1/20/2025 12:00AM – 1/22/2025 11:59PM
Wave 3 | 1/23/2025 12:00AM – Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Prerequisites: BST260 or BST210 or BST232 or PHS 2000A

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 2: Required Course |

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Biostatistics 270 Section: 1

Reproducible Data Science (205561)

Viola Fanfani

2025 Spring (2.5 Credits) Schedule: MTWRF 0900 AM - 1200 PM

Instructor Permissions: None Enrollment Cap: 25

The central theme of the course will be to meet these scientific needs of reproducible science through training in reproducible research. The topics covered in this course include the fundamentals of reproducible science, case studies in reproducible research, data provenance, statistical methods for reproducible science, and computational tools for reproducible science. This is a blended course where students are introduced to course content online through videos and reading assignments, and then discuss the content in lecture. Each student will submit a completely reproducible research project and give a short presentation at the end of the course.

Requirements: Enrollment limited to students in the Biostatistics department, including CBQG SM students.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |

## Biostatistics 272 Section: 1

Computing Environments for Biology (214542)

Curtis Huttenhower

2025 Spring (1.25 Credits) Schedule: TR 0100 PM - 0400 PM

Instructor Permissions: None Enrollment Cap: 25

This course provides a high-level introduction to general computing environments appropriate for biological data analysis, as preparation for more advanced computational biology and bioinformatics courses. It is intended for biologists, clinician-researchers, other bench or translational scientists, or mathematicians with little to no computational or applied quantitative experience. It provides a compressed, highly interactive, hands-on introduction to basic command line, Python, and R environments for biological data analysis and visualization. It covers basic quantitative methods that can be carried out for 'omics data analysis in these environments and ensures that students have access to local and online (i.e. grid, cloud) resources for using these tools in the future. Finally, it thoroughly introduces freely available documentation and strategies for self-learning when using computational methods for biology research.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| HSPH: Conditionally Approved | Conditionally Approved Course |

## Biostatistics 281 Section: 1

Genomic Data Manipulation (190119)

Eric Franzosa

Kelsey Thompson

2025 Spring (5 Credits) Schedule: MW 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 30

Introduction to genomic data, computational methods for interpreting these data, and a survey of current functional genomics research. Covers biological data processing, programming for large datasets, high-throughput data (sequencing, proteomics, expression, etc.), and related publications.
This course is targeted at students in experimental biology programs with an interest in understanding how available genomic techniques and resources can be applied in their research.

Course Notes: Lab or section times announced at first meeting.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT
Priority Wave Groups
Wave 1 | CBQG SM2 / BPH PhD
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment
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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: PreReq: BST 272 or BST 273

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |

## Biostatistics 282 Section: 1

Introduction to Computational Biology and Bioinformatics (190123)

Martin Hemberg

Luca Pinello

2025 Spring (5 Credits) Schedule: TR 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 50

Basic biological problems, genomics technology platforms, algorithms and data analysis approaches in computational biology. There will be three major components of the course: microarray and RNA-seq analysis, transcription and epigenetic gene regulation, cancer genomics.
This course is targeted at both biostatistics and biological science graduate students with some statistics and computer programming background who have an interest in exploring genomic data analysis and algorithm development as a potential future direction.

Course Note: Lab or section time to be announced at first meeting; cross-listed: HSPH student must register for HSPH course.

Course Prerequisite(s): STAT 110 and CS5O, or students in BIO, CBQG, or HDS degree programs, or permission of instructor.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | CBQG SM2
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be

automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Prerequisite: STAT 110 and CS50, or students in BIO, CBQG, or HDS degree programs, or permission of instructor.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |

## Biostatistics 300

Independent Study (190099)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These studies are open to all students who wish to go beyond the content of regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| HSPH: Independent Study | HSPH Independent Study 300 |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Biostatistics 300 Section: 002

Independent Study (190099)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of

students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These studies are open to all students who wish to go beyond the content of regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Independent Study | HSPH Independent Study 300 |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Biostatistics 300 Section: 003

Independent Study (190099)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These studies are open to all students who wish to go beyond the content of regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Independent Study | HSPH Independent Study 300 |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Biostatistics 300 Section: 004

Independent Study (190099)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These studies are open to all students who wish to go beyond the content of regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| HSPH: Independent Study | HSPH Independent Study 300 |

## Biostatistics 305 Section: 1

Independent Study - CPT (220776)

Brent Coull

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These studies are open to all students who wish to go beyond the content of regular courses.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |

## Biostatistics 305 Section: 2

Independent Study - CPT (220776)

Brent Coull

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These studies are open to all students who wish to go beyond the content of regular courses.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Biostatistics 305 Section: 3

Independent Study - CPT (220776)

Brent Coull

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These studies are open to all students who wish to go beyond the content of regular courses.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Biostatistics 311 Section: 1

Teaching Assistant (190102)

Brent Coull

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

Work with members of the department in laboratory instruction and the development of teaching materials.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Biostatistics 311 Section: 2

Teaching Assistant (190102)

Brent Coull

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: 1

Work with members of the department in laboratory instruction and the development of teaching materials.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |

## Biostatistics 311 Section: 3

Teaching Assistant (190102)

Brent Coull

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

Work with members of the department in laboratory instruction and the development of teaching materials.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Biostatistics 316 Section: 4

Quantitative Genomics Lab Rotation (190107)

Xihong Lin

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

Only available for students in the Interdisciplinary Research Training in Biostatistics and Computational Biology program

Complete lab rotation with members of the department in quantitative genomics.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Biostatistics 316 Section: 5

Quantitative Genomics Lab Rotation (190107)

Xihong Lin

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

Only available for students in the Interdisciplinary Research Training in Biostatistics and Computational Biology program

Complete lab rotation with members of the department in quantitative genomics.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Biostatistics 316 Section: 6

Quantitative Genomics Lab Rotation (190107)

Xihong Lin

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

Only available for students in the Interdisciplinary Research Training in Biostatistics and Computational Biology program

Complete lab rotation with members of the department in quantitative genomics.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Biostatistics 325 Section: 1

Biostatistics Master's Thesis (190108)

Erin Lake

Jeffrey Miller

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

Limited to students in the Biostatistics SM60 program, this ordinally graded thesis will include data analyses, data interpretation, and comparison of alternative methods, and will culminate in the student's written Master's thesis and oral presentation.

Requirements: Course Restriction: Restricted to students in the SM60-BIO Program

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Biostatistics 325 Section: 2

Biostatistics Master's Thesis (190108)

Erin Lake

Jeffrey Miller

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

Limited to students in the Biostatistics SM60 program, this ordinally graded thesis will include data analyses, data interpretation, and comparison of alternative methods, and will culminate in the student's written Master's thesis and oral presentation.

Requirements: Course Restriction: Restricted to students in the SM60-BIO Program

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Biostatistics 325 Section: 3

Biostatistics Master's Thesis (190108)

Erin Lake

Jeffrey Miller

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

Limited to students in the Biostatistics SM60 program, this ordinally graded thesis will include data analyses, data interpretation, and comparison of alternative methods, and will culminate in the student's written Master's thesis and oral presentation.

Requirements: Course Restriction: Restricted to students in the SM60-BIO Program

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

# Subject: Interdepartmental

## Interdepartmental 945B Section: 1

Applied Practice and Integrative Learning Experience for Quantitative Methods (205235)

Marcia Testa

2025 Spring (1.25 Credits) Schedule: T 0530 PM - 0720 PM

Instructor Permissions: Instructor Enrollment Cap: 55

All students completing a Master of Public Health degree must complete an Applied Practice Experience ("Practicum") and an Integrative Learning Experience (ILE). This required course is designed to meet both these degree requirements. QM Master of Public Health students develop a practicum project, many with collaborators from their home institutions, under the supervision of a local mentor or preceptor, and if required a member of the faculty at Harvard Chan. This practicum should include aspects of epidemiology, biostatistics, decision sciences, or other quantitative aspects of public health. Students should apply the competencies learned in core courses to an actual investigation. During Fall 1 and 2 semesters, students

must attend class sessions during which the various components of the practicum and culminating experience will be described and opportunities for practicum projects will be discussed. Prior to the end of Fall 2, students must submit a written proposal for the practicum along with the approval signature of the qualified individual indicating an agreement to act as the local mentor or preceptor for the practicum project. This proposal is reviewed by the Harvard Chan course instructors. During Spring 1, students must give a brief oral presentation to the class describing their practicum activities progress. Students must also submit three written interim progress reports (Review of the Literature, Detailed Study Outline, Field Study or Expert Interview Report) during Spring 1 and one written interim progress report (Data Management/Statistical Analysis Report) during Spring 2 according to the schedule outlined in the course syllabus. As part of their required MPH "culminating experience", during Spring 2 students must submit a structured abstract which will be published in the annual MPH QM Abstract book and give a poster presentation during the scheduled MPH QM Annual Poster Day Sessions They also must attend all Poster Day Sessions when they are not presenting and submit at least six written reviews critiquing the practicum project posters of their fellow students. Finally, all students must submit their practicum project as a final written report which would be considered suitable for publication.
Course Note: Students must attend the scheduled Fall 1, Fall 2, Spring 1 and Spring 2 classes and presentations as noted in the course syllabus.
Grade Note: ID 945 is a yearlong class comprised of two parts: Part A in the Fall and Part B in the Spring. Students only receive a grade in ID 945 after they have completed both Part A and Part B.
At the end of the Fall term, students will receive an "IP" ("in progress") grade in ID 945A. This is a non-credit-bearing placeholder grade that will remain on the student's transcript until they receive a final grade at the end of the Spring term. This means the 1.25 credits from ID 945A will not be reflected in the student's transcript when the "IP" grade is present. When the Spring grades are posted, the student's final grade will replace the "IP" grade on the transcript, and the transcript will reflect the full 2.5 credits the student earned from ID 945.

Requirements: Course restricted to students in the MPH45 Quantitative Methods (academic year) program HSPH: ID 945A/B

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Full Year Course | Indivisible Course |
| HSPH: Course Category | Category 2: Required Course |
| Course Search Attributes | Display Only in Course Search |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH:Year Long Course | HSPH:Year Long Course |

## Interdepartmental 945C Section: 1

Applied Practice and Integrative Learning Experience for Quantitative Methods (211055)

Marcia Testa

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 20

This course allows students to extend their MPH practicum project as a continuation of ID 945B at a more advanced and intensive level. To register, students must: 1) have completed all assignments required in ID 945B as of the end of Spring 1; 2) submit an ID 945C proposal during the last two weeks of Spring 2 outlining the advanced work to be undertaken; and 3) receive approval from the ID 945C primary instructor that (1)

and (2) are satisfactory. Successful completion of Assignment ID 945C Integrated Learning Experience (ILE) - #7 entitled "Additional Practicum Work Deliverable" will be required to receive a passing grade. The ILE #7 work product may include any one of the following (or combination) based upon the practicum project: a) quantitative methods summary report describing the additional data collected or analyses performed; b) professional meeting presentation involving submission and acceptance of an abstract for presentation, recording of the oral presentation or copy of the poster presentation and documentation of meeting attendance; c) documentation of a submitted manuscript of the practicum project; d) description of additional internship or experiential work in conjunction with a public health or other similar agency or health care affiliate or approved partner; and e) description of biostatistical or epidemiological methods work relating to the practicum project data. or study design Under special circumstances and with the instructor's approval, students may also choose to work on a different topic than the one previously chosen for ID945AB.

Enrollment Requirement Notes:

To qualify for enrollment into ID945C you must have completed all your ID945A and ID945B assignments due by the end of Spring 1. If you enroll for ID945C and you have not completed all of your ID945A and ID945B assignments, you will need to finish them or drop the course by the end of the Spring 2 Add/Drop period.

Requirements: Course restricted to students in the MPH45 Quantitative Methods (academic year) program HSPH: ID 945A/B

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |

# Doctor of Public Health

## Subject: Doctor of Public Health

### Doctor of Public Health 215 Section: 1

Developing and Delivering Purposeful Learning Experiences (219883)

Sejal Vashi

David Ginnings

Lumas Helaire

2025 Spring (1.25 Credits) Schedule: T 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 10

Education, training, and workforce development are integral to the DrPH graduate's scope of practice. The purpose of this course is to equip DrPH students with the tools to identify learning needs and deliver high-quality educational experiences in academic, organizational, and community settings. The course is designed to meet the DrPH Foundational Competencies in the Education and Workforce Development domain: (1)

Assess an audience's knowledge and learning needs, (2) Deliver training or educational experiences that promote learning in academic, organizational, or community settings; (3) Use best practice modalities in pedagogical practices The course consists of eight 90-minute sessions with a mix of didactic instruction, workshop-style discussions, and student-led presentations.

Class Notes: Session Dates:
Session 1. February 11
Session 2. February 18
Session 3. February 25
Session 4. March 4
Session 5. March 11
Session 6. March 25
Session 7. April 1
Session 8. April 8

Requirements: HSPH: DRPH

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| eForm Autosubmitter | Auto Submitter |

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## Doctor of Public Health 242B Section: 1

Leadership in Public Health: Personal Mastery II (213232)

Fawn Phelps

Perry Dougherty

2025 Spring (3.75 Credits) Schedule: TR 0945 AM - 1115 AM
R 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 10

Leadership in Public Health: Personal Mastery Integration is an extension of the DrPH 240 course that forms the foundation of the DrPH's leadership development within the Enabling Change curriculum. The DrPH leadership development programming is rooted in understanding and applying leadership theory. This course emphasizes learning through experiential exercises and reflective practices. DrPH 242 is intended to offer ongoing theoretical and practical integration of the leadership development principles.

Class Notes: Please note: DRPH 242B has different meeting schedules in Spring 1 and Spring 2.

Requirements: HSPH: DRPH Students + Pre-Requisite DRPH 240

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

| Attribute | Value(s) |
|---|---|
| Full Year Course | Indivisible Course |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| Course Search Attributes | Display Only in Course Search |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH:Year Long Course | HSPH:Year Long Course |

## Doctor of Public Health 251 Section: 1

Enabling Large Scale Change (204462)

Predrag Stojicic

Jennifer Goldsmith

2025 Spring (2.5 Credits) Schedule: MW 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 10

The Enabling Change program within the DrPH degree program is based on the belief that effective, applied, public health practitioners must be able to enable positive change within themselves, amongst their teams, inside their organizations, and across systems. For those preparing to work at scale, what applied skills, learning trajectories, frameworks, and mindsets are needed to identify synergies, foster multi-party collaborations, and coordinate work within an organization, across systems, and across sectors? How do individual actors orient themselves to this work, especially where the scale of the endeavor requires complex partnerships among entities who may evaluate success in different ways and where work typically unfolds over a long time (possibly exceeding an individual career or even life span)?
This course enables DrPH students to engage with senior leaders who have led significant large-scale efforts. Each session will focus on a tripartite model of exploring a significant, complex problem (institutional transformation or achieving health equity), relevant management and performance tools (i.e. strategic planning and implementation, budget and regulatory processes, or engaging multi-stakeholder coalitions), and the leader's reflections on operating wisely (and learning from mistakes) in the context of "wicked problems." The course will also allow DrPH students to draw lessons from their own leadership engagements during the January Field Immersion. Finally, students will be introduced to a portfolio of approaches that take into account the intersection of policy and politics. For example, students will learn how to prepare for and engage in a simulated press conference and workshop personal branding and digital communications strategies.

Course Objectives
At the end of this course, students will be able to:

- Refine personal leadership agendas and identify skill areas to shape their progression in the DrPH program, including their summer Field Immersion experiences.
- Integrate the synergistic efforts of the public, professionals, policymakers, and other key constituents in driving large-scale change in health issues, utilizing scientific evidence, stakeholder input, public opinion data, and other key sources of information.
- Identify pathways by which individuals drive large-scale change efforts within organizations, across coalitions of organizations, and across sectors.
- Apply strategies towards consensus/resolution in multi-stakeholder settings and alternatives where agreement currently cannot be fostered.

No auditing.

Requirements: Restricted to DRPH students in year 1

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

## Doctor of Public Health 255B Section: 1

Case Development Immersion: Dynamics of Teams in Systems (222710)

Jennifer Goldsmith

2025 Spring (0.5 Credits) Schedule: W 0345 PM - 0515 PM
W 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 10

Public Health and the healthcare industry are in an era of increasingly rapid change. The complexity of public health and healthcare issues, healthcare financing and operations, and intractable public health challenges call for dynamic, thoughtful, and inclusive leadership. Now more than ever, public health practitioners must develop leadership skills that enable them to work across programmatic and systemic "silos" while engaging and working with diverse communities, topic experts, and other stakeholders.

DRPH 255 is a real-time dive into community-focused public health interventions. This course integrates the development of leadership, problem-solving, and teamwork skills through reflection, interviews, assessment, and synthesis. The course gives you an opportunity to get involved in the community and put your classroom theories to the test. Student teams work with a host organization and a faculty mentor to develop a robust teaching case reflecting on complex organizational decision points or challenges. DrPH teams initially engage with the host in the fall, spend full time for three weeks in January and continue working with the host to complete deliverables through March.

The course focuses on three key areas:

1. Working effectively in teams to produce a product reflecting on a community-focused client organization.
2. Stakeholder engagement and cross-sector collaboration (e.g., clinicians, frontline health center and mental health staff, educators, community health workers, community organizations, and residents).
3. Working effectively and authentically with diverse populations.

Grade Note: DRPH 255 is a yearlong class comprised of three parts: Part A in the Fall, Part B in the Winter, and Part C in the Spring. For enrollment purposes and planning credit totals, students should factor 1 credit during the Fall, .5 credits in Winter, and 1 credit in the Spring. Students only receive a grade in DRPH 255 after they have completed Parts A through C. At the end of the Fall term and WinterSession, students will receive an "IP" ("in progress") grade in DRPH 255A and 255B. This is a non-credit-bearing placeholder grade

that will remain on the student's transcript until they receive a final grade at the end of the Spring term. When the Spring grades are posted, the student's final grade will replace the "IP" grade on the transcript, and the transcript will reflect the full 2.5 credits the student earned from DRPH 255.

Requirements: HSPH: DRPH

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Search Attributes | Display Only in Course Search |
| HSPH:Year Long Course | HSPH:Year Long Course |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Not Available for Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Doctor of Public Health 255C Section: 1

Case Development Immersion: Dynamics of Teams in Systems (222711)

Jennifer Goldsmith

2025 Spring (1 Credits) Schedule: W 0530 PM - 0645 PM

Instructor Permissions: None Enrollment Cap: 11

Public Health and the healthcare industry are in an era of increasingly rapid change. The complexity of public health and healthcare issues, healthcare financing and operations, and intractable public health challenges call for dynamic, thoughtful, and inclusive leadership. Now more than ever, public health practitioners must develop leadership skills that enable them to work across programmatic and systemic "silos" while engaging and working with diverse communities, topic experts, and other stakeholders.

DRPH 255 is a real-time dive into community-focused public health interventions. This course integrates the development of leadership, problem-solving, and teamwork skills through reflection, interviews, assessment, and synthesis. The course gives you an opportunity to get involved in the community and put your classroom theories to the test. Student teams work with a host organization and a faculty mentor to develop a robust teaching case reflecting on complex organizational decision points or challenges. DrPH teams initially engage with the host in the fall, spend full time for three weeks in January and continue working with the host to complete deliverables through March.

The course focuses on three key areas:

1. Working effectively in teams to produce a product reflecting on a community-focused client organization.
2. Stakeholder engagement and cross-sector collaboration (e.g., clinicians, frontline health center and mental health staff, educators, community health workers, community organizations, and residents).
3. Working effectively and authentically with diverse populations.

Grade Note: DRPH 255 is a yearlong class comprised of three parts: Part A in the Fall, Part B in the Winter, and Part C in the Spring. For enrollment purposes and planning credit totals, students should factor 1 credit during the Fall, .5 credits in Winter, and 1 credit in the Spring. Students only receive a grade in DRPH

255 after they have completed Parts A through C. At the end of the Fall term and WinterSession, students will receive an "IP" ("in progress") grade in DRPH 255A and 255B. This is a non-credit-bearing placeholder grade that will remain on the student's transcript until they receive a final grade at the end of the Spring term. When the Spring grades are posted, the student's final grade will replace the "IP" grade on the transcript, and the transcript will reflect the full 2.5 credits the student earned from DRPH 255.

Requirements: HSPH: DRPH

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH:Year Long Course | HSPH:Year Long Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| Course Search Attributes | Display Only in Course Search |

## Doctor of Public Health 270 Section: 1

Strategic Management in Global Settings (205526)

Marc Spooner

2025 Spring (2.5 Credits) Schedule: MW 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 35

"Strategic Management in Global Settings" will provide an overview of some of the key concepts and tools in strategic management that students will be able to draw upon throughout their careers as public health leaders. Topics will include competitive analysis, formulation and implementation of strategy, and strategic measurement and management of organizational performance. This is a case-based course and student preparation and active participation is required. Cases will represent a diverse cross-section of health care organizations, and will include both US and global organizations. Cases will range from academic medical centers to government-owned hospitals, as well as ministries of health to non-governmental organizations (NGOs) to private health care corporations.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT
Priority Wave Groups
Wave 1 | DRPH, New MPH45 HM, Continuing MPH65 HM
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment
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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Mutually exclusive with HPM231. Cannot receive credit for both courses.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Not Available for Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

## Doctor of Public Health 290B Section: 1

DrPH Doctoral Seminar (205229)

Gillian Christie

Emma-Louise Aveling

2025 Spring (1.25 Credits) Schedule: R 0530 PM - 0700 PM

Instructor Permissions: Instructor Enrollment Cap: 10

The DrPH Doctoral Project Seminar is required for all DrPH second-year students. Its objective is to guide DrPH students through a structured and collaborative approach in support of the development of their third year Doctoral Project, culminating in the presentation of a Doctoral Project approach in the last part of the seminar.

The seminar will run in two phases: DRPH 290A in Fall 2 and DPH 290B in Spring. In Fall 2, students will prepare for the development of their Doctoral Project ideas, a thorough review of the goals, guidance, and outputs required of the project. In Spring 1, students will focus on finalizing their Doctoral Project. The seminar will include guidance on the development of proposals and effective proposal presentation. In Spring 2, students will deliver a presentation on their Doctoral Project proposal in preparation for their Oral Qualifying Exam.

Requirements: Restricted to second year students in the DRPH program

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH:Year Long Course | HSPH:Year Long Course |
| HSPH: Indpt. Study / Research | NO |
| Full Year Course | Indivisible Course |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| Course Search Attributes | Display Only in Course Search |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Doctor of Public Health 301 Section: 1

Independent Study (205548)

Richard Siegrist

2025 Spring (0.25 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of regular courses.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Doctor of Public Health 350 Section: 1

Doctoral Project (Residence) (203349)

Richard Siegrist

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Doctor of Public Health 350 Section: 2

Doctoral Project (Residence) (203349)

Nancy Turnbull

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Doctor of Public Health 350 Section: 3

Doctoral Project (Residence) (203349)

Kevin Croke

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Not Available for Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Doctor of Public Health 350 Section: 4

Doctoral Project (Residence) (203349)

Mary Bassett

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Doctor of Public Health 350 Section: 5

Doctoral Project (Residence) (203349)

Jesse Bump

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Doctor of Public Health 350 Section: 6

Doctoral Project (Residence) (203349)

Rifat Atun

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Doctor of Public Health 350 Section: 7

Doctoral Project (Residence) (203349)

Vaughan Rees

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Not Available for Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Doctor of Public Health 350 Section: 8

Doctoral Project (Residence) (203349)

Howard Koh

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Course Category | Category 2: Required Course |

## Doctor of Public Health 400 Section: 1

Doctoral Project (Non-Resident) (203350)

Richard Siegrist

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Doctor of Public Health 400 Section: 3

Doctoral Project (Non-Resident) (203350)

Kevin Croke

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Doctor of Public Health 400 Section: 4

Doctoral Project (Non-Resident) (203350)

Mary Bassett

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for

completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Doctor of Public Health 400 Section: 5

Doctoral Project (Non-Resident) (203350)

Jesse Bump

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Doctor of Public Health 400 Section: 6

Doctoral Project (Non-Resident) (203350)

Rifat Atun

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Not Available for Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |

## Doctor of Public Health 400 Section: 7

Doctoral Project (Non-Resident) (203350)

Vaughan Rees

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Doctor of Public Health 400 Section: 8

Doctoral Project (Non-Resident) (203350)

Howard Koh

2025 Spring (15 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

These two credit bearing courses, are the primary vehicle for which DRPH students will earn credits for completing their Doctoral Projects. Students will be expected to register for 15 credits of DRPH 350 OR DRPH 400 during the summer and 20 credits during the Fall and Spring to maintain their full-time student status at the School. Students will be expected to register for a section of DRPH 350 OR DRPH 400 that corresponds to their resident status (resident versus non-resident) and their committee chair/advisor.

Requirements: HSPH: Passed DRPH Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Not Available for Cross Registration |

# Environmental Health

## Subject: Environmental Health

### Environmental Health 208 Section: 1

Pathophysiology of Human Disease (190169)

Nancy Long Sieber

Kristopher Sarosiek

2025 Spring (5 Credits) Schedule: MW 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 25

Surveys major human disease problems in the cardiovascular, respiratory, hematopoietic, reproductive and gastrointestinal systems. Emphasis on understanding the pathophysiologic basis of common disease manifestations and the pathogenesis of the disease process. Relevant public health perspectives on the epidemiology or control of diseases are also integrated.

Course Note: Cross-listed course, HSPH students must register for HSPH course. Prior coursework in normal physiology is recommended but not mandatory

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending

no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |

## Environmental Health 212 Section: 1

Food and the Global Environment (204507)

Gary Adamkiewicz

2025 Spring (2.5 Credits) Schedule: M 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 60

In this course, we will explore the development of our modern food production and distribution system and its effects on our environment and planet. To explore the opportunities for and challenges to achieving a sustainable food system, we will critically review published studies and other assessments that evaluate the environmental and social impact of food-related products and processes. The course will cover such topics as: agricultural and food policy, industrialization and "factory" farming, the interrelationship between climate change and food production, water quality and scarcity, the role of technology in food production and other relevant topics. The course will be taught through a series of lectures, case studies and readings that highlight recent research and trends. We will apply life cycle assessment concepts and appropriate sustainability criteria and benchmarking to current questions surrounding our global food system, and will incorporate observations from the developed and developing world. The course will emphasize the methodologies and skills needed to critically assess the sustainability of various food products and practices.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00AM – 1/19/2025 11:59PM
Wave 2 | 1/20/2025 12:00AM – 1/22/2025 11:59PM
Wave 3 | 1/23/2025 12:00AM – Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add

themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Classification | Even Year Class |

## Environmental Health 231 Section: 1

Occupational Health Policy and Administration (190172)

Carolyn Langer

2025 Spring (2.5 Credits) Schedule: M 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 28

Examines the legal, regulatory and economic foundations of occupational health activities in the United States. Discusses the roles of government, unions, corporations, and research organizations. Helps students acquire an understanding of management functions in corporations.

Course Activities: Students develop the necessary knowledge and skills in the above areas to apply medico-legal and risk management principles to achieve a healthful workplace.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 1: School-Wide Core Requirement |

## Environmental Health 232 Section: 1

Introduction to Occupational and Environmental Medicine (190173)

Stefanos Kales

Justin Yang

2025 Spring (2.5 Credits) Schedule: F 0800 AM - 0930 AM

Instructor Permissions: None Enrollment Cap: 35

Overview of Occupational and Environmental Medicine including: the diagnosis and management of illnesses following exposure to specific workplace substances, environmental and community hazards, such as asbestos, lead, organic solvents, and vibration; methods of diagnosis of early organ system effects of chemicals and techniques for assessing impairment and disability; as well as, medicolegal aspects of occupational health.

Course Activities: Mid-term exam and Final exam.

Course Note: Basic course in toxicology recommended.

This is a clinical and preventive medicine course. The material is taught at a post-graduate level, and a medical or allied health background is required. The majority of students will be physicians, nurses, dentists, pharmacists and students in those fields. Persons without prior biomedical training may NOT take the class for an ordinal grade. Such students are welcome to audit the class. In certain exceptions, if discussed with the instructors, such students may be granted permission by the instructors to take the course on a pass/fail basis.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups

Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM – Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 1: School-Wide Core Requirement |
| HSPH: Indpt. Study / Research | NO |

## Environmental Health 236 Section: 1

Epidemiology of Environmental & Occupational Health Regulations (190175)

Gregory Wagner

David Wegman

Anna Iokheles

2025 Spring (5 Credits) Schedule: F 0945 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 16

Provides students with the opportunity to review the epidemiologic basis for associating selected occupational and environmental exposures with health outcomes and to explore how this science might be used to develop and implement regulation of these exposures. Class sessions are divided between a critical evaluation of the science and a thoughtful engagement with how the science can inform policy. Several sessions include guest experts who have worked at the interface of science and policy.

Course Activities: Discussions based on selected epidemiologic studies and potential policy to address each problem.

Course Note: Any EH course required as a pre-requisite or concurrent requisite.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM – Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Prerequisites: Any EH Course (Concurrent Enrollment Allowed)

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |

## Environmental Health 252 Section: 1

Healthy Buildings (190181)

Joseph Allen

Holly Samuelson

2025 Spring (5 Credits) Schedule: R 0900 AM - 1145 AM

R -

Instructor Permissions: None Enrollment Cap: 12

This course is jointly offered by HSPH as EH 252 and the GSD as SCI 6361. It will meet for the first half of the semester, January 30–March 6, at HSPH and the second half, March 13-April 24, at the GSD. See syllabus for details.

The way we design and operate buildings plays a central role in our health, due to both the time we spend indoors and the climate-impact of the energy used to power our buildings. This course, cross-listed between Harvard Graduate School of Design and Harvard TH Chan School of Public Health, seeks to leverage the science and approaches from each discipline to find building-related solutions to the public health challenges of our time. Students will explore building strategies that can improve indoor air quality, help prevent the spread of airborne infectious disease, reduce exposure to toxic materials, improve thermal resilience, and support overall well-being, while also examining the role buildings play in our energy system, the cascading health impacts of associated air pollution and climate change, and building design and technologies that can support climate mitigation, climate adaptation, and climate resilience. Through a mix of lectures, case studies, hands-on workshops, real-world building assessments, and a final project pairing students from each school, students will engage deeply in a solutions-focused course at the intersection of public health, environmental health, architecture, and design.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

This course is jointly offered by HSPH as EH 252 and the GSD as SCI 6361. It will meet for the first half of the semester, January 30–March 6, at HSPH (Landmark Center 414A) and the second half, March 13-April 24, at the GSD (42 Kirkland St 42-1-G). See syllabus for details.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

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Environmental Health 257 Section: 1

Water Pollution (190186)

Ronnie Levin

| | | | |
|---|---|---|---|
| 2025 Spring (5 Credits) | | Schedule: | TR 0945 AM - 1115 AM |
| Instructor Permissions: | None | Enrollment Cap: | 68 |

This seminar course is designed to teach an understanding of the basic principles of water pollution and water pollution issues on local, regional and global scales. The course will begin with a discussion of the basic chemical, physical and biological properties of water and water contaminants. Subsequent lectures will cover specific chemical and biological contaminants in ground, surface, and marine waters; sources, fate, transport, and transformation of contaminants; monitoring techniques, water source protection and resource management; water and wastewater treatment; transmission of waterborne disease; toxicological concerns of chemicals in water, including disinfection byproducts; and interactions with the air and land environments. Invited lecturers will cover issues such as harmful algal blooms, groundwater modeling, coastal zone management, and
US regulatory approaches and policies for aquatic ecosystem protection.
Course Activities: Class discussions, homework assignments, exams and final project.

Course Activities: Class discussions, homework assignments, exams and final project.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM – Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Environmental Health 271 Section: 1

Environmental Health in The Eastern Mediterranean Region (221692)

Petros Koutrakis

Barrak Alahmad

2025 Spring (2.5 Credits) Schedule: MTWRF 1000 AM - 1200 PM

Instructor Permissions: Instructor Enrollment Cap: 10

This winter session travel course will introduce students to the intersections of climate change, air quality and health for populations in the Eastern Mediterranean region. Students will apply epidemiological tools to examine environmental exposures and health vulnerabilities that are unique to this region.
The course will be in collaboration with academic institutions of the region such as the University of Nicosia and University of Cyprus. Students will travel to Cyprus to participate in in-person workshops and field trips, present findings and engage in case-based discussions with local professionals and researchers from the Eastern Mediterranean region who are experts in wildfires, earthquakes, heat, and dust storms.
This course is based on field participation and final project presentation. Eligible Masters students may conduct further independent studies towards using the final project as their thesis. Students will be paired with one mentor from Harvard T.H. Chan School of Public Health and mentors from the local Universities as they write papers of publishable quality.
This course is offered for eligible EH Masters students in the Cyprus Internship Program.

Requirements: Class is restricted to Environmental Health Master of Science students.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Winter Session | Winter Session |
| eForm Autosubmitter | Auto Submitter |

## Environmental Health 278 Section: 1

Human Health and Global Environmental Change (190204)

Caleb Dresser

Nicholas Arisco

2025 Spring (2.5 Credits) Schedule: TR 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 59

Human activity is changing the atmosphere and altering terrestrial and marine ecosystems on a global scale. Evidence is mounting that these changes may already be having serious effects on human health, and there is growing concern that in coming decades the effects could be catastrophic. This course was developed because the practice of public health in this century will require an understanding of the relationship between human health and the global environment. It will provide an overview of climate change and related processes, key examples of global environmental change, their potential consequences for human health, and explore solutions to these problems and the challenges inherent in realizing those solutions. The course will be open to all students at Harvard University, but enrollment is limited, and preference will be given to students from Harvard Medical School, the Harvard School of Public Health, the Kennedy School of Government, and to undergraduate Environmental Science Public Policy majors.

The course is cross-listed with Harvard Medical School as HO703. Students from HMS and other schools will also be part of the class.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add

themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)
**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 1: School-Wide Core Requirement |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 291 Section: 1

Community Practice in Environmental Health (221644)

Gary Adamkiewicz

Ann Backus

2025 Spring (5 Credits) Schedule: F 0800 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 25

The purpose of this course is to introduce students to the complexities of and best practices for community engaged/action research and collaboration. Students will integrate skills and knowledge from their environmental health training to address community interests/needs. Students will work with a member of a non-academic partner organization and will complete a formal project report/presentation, as well as reflect on their experience throughout the semester.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Environmental Health 297 Section: 1

Atmospheric Environment (190215)

Petros Koutrakis

2025 Spring (5 Credits) Schedule: WF 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 30

This course offers a comprehensive overview of gaseous and particulate air pollutants. It will emphasize pollutant sources, physical and chemical properties, sampling and analysis, chemical transformation, atmospheric transport, fate, and potential for adverse health and environmental impacts. It will examine

regulatory efforts to protect environmental health and emission control technologies for mobile and stationary sources, Lectures will present case studies on air pollution studies in US and other courses. Students will also learn to apply positive matrix factorization (PMF) to air pollution data and how to model pollutant dispersion using the AERMOD modeling system. In addition to mid-term and final examinations, the class includes several homework assignments and computer laboratories.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 300

Independent Study (190217)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses. Opportunities are provided for independent studies in the fields of aerosol technology, air pollution control, environmental health management, environmental epidemiology, environmental microbiology, industrial hygiene and ventilation, nuclear medicine, occupational medicine, radiological health, respiratory biology, respiratory epidemiology, injury epidemiology, ergonomics, and solid waste management.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Independent Study | HSPH Independent Study 300 |

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## Environmental Health 300 Section: 002

Independent Study (190217)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses. Opportunities are provided for independent studies in the fields of aerosol technology, air pollution control, environmental health management, environmental epidemiology, environmental microbiology, industrial hygiene and ventilation, nuclear medicine, occupational medicine, radiological health, respiratory biology, respiratory epidemiology, injury epidemiology, ergonomics, and solid waste management.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Independent Study | HSPH Independent Study 300 |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 300 Section: 003

Independent Study (190217)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses. Opportunities are provided for independent studies in the fields of aerosol technology, air pollution control, environmental health management, environmental epidemiology, environmental microbiology, industrial hygiene and ventilation, nuclear medicine, occupational medicine, radiological health, respiratory biology, respiratory epidemiology, injury epidemiology, ergonomics, and solid waste management.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Independent Study | HSPH Independent Study 300 |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 300 Section: 004

Independent Study (190217)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses. Opportunities are provided for independent studies in the fields of aerosol technology, air

pollution control, environmental health management, environmental epidemiology, environmental microbiology, industrial hygiene and ventilation, nuclear medicine, occupational medicine, radiological health, respiratory biology, respiratory epidemiology, injury epidemiology, ergonomics, and solid waste management.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Independent Study | HSPH Independent Study 300 |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 0

Research (190222)

Joseph Allen

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 1

Research (190222)

David Christiani

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are

undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 10

Research (190222)

John Evans

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 101

Research (190222)

Phil Demokritou

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 102

Research (190222)

Phil Demokritou

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 103

Research (190222)

Phil Demokritou

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 104

Research (190222)

Samuel Myers

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 105

Research (190222)

Samuel Myers

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 106

Research (190222)

Samuel Myers

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 11

Research (190222)

John Evans

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 12

Research (190222)

John Evans

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 124

Research (190222)

Elsie Sunderland

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 125

Research (190222)

Elsie Sunderland

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 126

Research (190222)

Elsie Sunderland

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 350 Section: 127

Research (190222)

Joseph Allen

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 128

Research (190222)

Joseph Allen

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 129

Research (190222)

Joseph Allen

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 13

Research (190222)

Zhi-Min Yuan

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 130

Research (190222)

Maitreyi Mazumdar

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 131

Research (190222)

Maitreyi Mazumdar

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 132

Research (190222)

Maitreyi Mazumdar

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 133

Research (190222)

Bernardo Lemos

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 134

Research (190222)

Tamarra James-Todd

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 135

Research (190222)

Peter James

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 136

Research (190222)

Peter James

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 137

Research (190222)

Peter James

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |

## Environmental Health 350 Section: 138

Research (190222)

Shruthi Mahalingaiah

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 350 Section: 139

Research (190222)

Shruthi Mahalingaiah

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 14

Research (190222)

Zhi-Min Yuan

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 140

Research (190222)

Shruthi Mahalingaiah

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |

## Environmental Health 350 Section: 141

Research (190222)

Shruthi Mahalingaiah

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 350 Section: 15

Research (190222)

Zhi-Min Yuan

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 17

Research (190222)

Diane Gold

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 18

Research (190222)

Diane Gold

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 19

Research (190222)

Russ Hauser

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 2

Research (190222)

David Christiani

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 350 Section: 20

Research (190222)

Russ Hauser

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 350 Section: 21

Research (190222)

Russ Hauser

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 22

Research (190222)

Susan Korrick

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 23

Research (190222)

Susan Korrick

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 24

Research (190222)

Susan Korrick

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 25

Research (190222)

Petros Koutrakis

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 350 Section: 26

Research (190222)

Petros Koutrakis

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 27

Research (190222)

Petros Koutrakis

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 350 Section: 28

Research (190222)

Francine Laden

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 29

Research (190222)

Francine Laden

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 3

Research (190222)

David Christiani

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 30

Research (190222)

Francine Laden

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 31

Research (190222)

Zachary Nagel

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |

## Environmental Health 350 Section: 32

Research (190222)

Zachary Nagel

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 33

Research (190222)

Zachary Nagel

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 350 Section: 34

Research (190222)

Eileen McNeely

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 35

Research (190222)

Eileen McNeely

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 36

Research (190222)

Eileen McNeely

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 37

Research (190222)

Kristopher Sarosiek

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 38

Research (190222)

Kristopher Sarosiek

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 39

Research (190222)

Kristopher Sarosiek

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 4

Research (190222)

Jack Dennerlein

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 44

Research (190222)

Joel Schwartz

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 350 Section: 45

Research (190222)

Joel Schwartz

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 49

Research (190222)

John Spengler

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 5

Research (190222)

Jack Dennerlein

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 50

Research (190222)

John Spengler

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 51

Research (190222)

John Spengler

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 58

Research (190222)

Marc Weisskopf

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 59

Research (190222)

Marc Weisskopf

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 6

Research (190222)

Jack Dennerlein

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 60

Research (190222)

Marc Weisskopf

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 67

Research (190222)

Douglas Dockery

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 68

Research (190222)

Douglas Dockery

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 69

Research (190222)

Douglas Dockery

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 7

Research (190222)

Gary Adamkiewicz

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |

## Environmental Health 350 Section: 71

Research (190222)

Stefanos Kales

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 72

Research (190222)

Stefanos Kales

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 73

Research (190222)

Stefanos Kales

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 350 Section: 77

Research (190222)

Antonella Zanobetti

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 350 Section: 78

Research (190222)

Antonella Zanobetti

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 79

Research (190222)

Antonella Zanobetti

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 80

Research (190222)

Shruthi Mahalingaiah

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 350 Section: 81

Research (190222)

Shruthi Mahalingaiah

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |

## Environmental Health 350 Section: 82

Research (190222)

Shruthi Mahalingaiah

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 91

Research (190222)

Adam Haber

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 92

Research (190222)

Adam Haber

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 350 Section: 93

Research (190222)

Adam Haber

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Environmental Health 350 Section: 97

Research (190222)

Jaime Hart

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Environmental Health 350 Section: 98

Research (190222)

Jaime Hart

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 350 Section: 99

Research (190222)

Jaime Hart

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work on the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Environmental Health 508 Section: 1

Master's Thesis and Collaborative Research in Environmental Health (204464)

Francine Laden

Jaime Hart

2025 Spring (5 Credits) Schedule: W 0345 PM - 0700 PM

Instructor Permissions: None Enrollment Cap: 30

The objective of the practicum is to allow Environmental Health Masters of Science students to integrate what they have learned and apply this knowledge in the evaluation of a problem of importance.

You must first develop a proposal for an independent research project, with an identified faculty member as an approved advisor for this project. The advisor could be one of the course instructors, but generally involves other faculty members at the Harvard Chan School.

The project must be well-defined, well-executed, must demonstrate knowledge of the chosen area of research, and should clearly describe the findings in the scope of the wider literature. Given the relatively short amount of time available for completion of the thesis, a clear presentation of gaps in your current work and potential future directions may be as important as the analysis itself.

Registration Note: Restricted to second year EH-SM2 students.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Course Restricted: 2nd Year EH SM2 Students

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Environmental Health 513 Section: 1

Interdisciplinary Training in Pulmonary Sciences, Part II (190230)

Quan Lu

2025 Spring (2.5 Credits) Schedule: T 0945 AM - 1045 AM
F 0100 PM - 0159 PM

Instructor Permissions: None Enrollment Cap: 20

The intersection of environment and health is by necessity an interdisciplinary focus. The most promising advances in lung biology and respiratory disease are resulting from teams of scientists with diverse disciplinary training, including biology, medicine, engineering, and physics. In addition to a strong foundation in a specific discipline, the ability to recognize and act upon opportunities presented by outside disciplines is a crucial skill. This course is designed to train scientists to approach lung biology and

respiratory diseases with an interdisciplinary perspective, in particular by bridging the gap between life sciences and physical/engineering sciences. With a focus on laboratory sciences and on mechanistic levels of understanding, course materials will cover 3 main problem areas: asthma, air pollution, and lung infection. The course consists of weekly course-meetings (lectures and case-studies) plus weekly research seminars from the physiology program. Students will gain skills in recognizing the relative strengths and weaknesses of different disciplinary approaches applied to pulmonary sciences, in designing interdisciplinary experiments effectively, and in interpreting interdisciplinary results critically.

Class Notes: This class will be taught in Building 1, 13th Floor, Room 1302

THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |

## Environmental Health 520 Section: 1

Research Design in Environmental Health (190234)

Joel Schwartz

2025 Spring (2.5 Credits) Schedule: F 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 20

The seminars consist of student presentation of plans for collection and analysis of data, with discussion by students and faculty. Preparatory work is done under tutorial arrangements with members of the faculty. The emphasis is on conceptual issues necessary for the development of a feasible and informative study.

Course Activities: Individual student paper and presentation, class discussion, oral critique of another student's research proposal and student and faculty critiques.

Course Note: This course is aimed primarily at environmental health doctoral students.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |

## Environmental Health 525 Section: 1

Environmental Justice: Concepts and Practice (219615)

Tamarra James-Todd

Gary Adamkiewicz

Kathryn Tomsho

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|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | MW 0945 AM - 1115 AM |
| Instructor Permissions: | None | Enrollment Cap: | 30 |

The purpose of this course is to introduce the topic of environmental justice as it relates to public health. It has been developed to be accessible to a broad audience including those with backgrounds in environmental health, epidemiology, basic sciences, social and behavioral sciences, and health policy. Topics will include fundamental principles and frameworks, social and biological mechanisms underlying environmental health disparities; methods for assessing and measuring the disproportionate burden of harmful environmental effects borne by some communities as a consequence (of racism and other forms of) discrimination; the practice of environmental justice as a framework for guiding the approach to reducing environmental health disparities; and strategies for effective community-based participatory research; development of action-oriented research strategies to lessen environmental health disparities; and translation of research findings for the purpose of science communication and implementation. The course format will include discussions of case studies and guest lectures from leading figures in the field.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Winter Session | Winter Session |
| HSPH: Course Category | Category 4: Elective |
| eForm Autosubmitter | Auto Submitter |

## Environmental Health 550 Section: 1

Special Topics in Environmental Health: Risk and Decisions (207083)

John Evans

Lisa Robinson

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|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | MWF 1100 AM - 1200 PM |
| | | | MWF 0100 PM - 0230 PM |
| Instructor Permissions: | None | Enrollment Cap: | 13 |

Special Topics in Environmental Health.

See class notes for course description.

Class Notes: Taught by: John S. Evans, Lisa A. Robinson

The course is designed for MS and PhD students in Environmental Health and other departments who intend to develop, apply or interpret risk assessments in support of environmental decision making and

policy.
It asks each student to consider how they would decide which environmental exposures pose risks so large that they must be controlled, and which are so small that they may safely be ignored. For those which must be controlled, it asks them to develop an approach for deciding how much control is necessary and how to distinguish circumstances where they must act now from those where uncertainty is so large that control decisions should be deferred (in order to allow researchers time to conduct studies intended to improve understanding of the risks involved). The distinct roles of science and values are discussed. We consider the complexity introduced when individual values (health vs. wealth, risk neutrality-aversion-proneness) differ substantially across the affected population.
The course introduces the concepts and framework of economic evaluation; reviews approaches for valuing risks to health and longevity; discusses methods for incorporating consideration of the distribution and equity of control costs and health benefits. It examines the interpretation of evidence from epidemiology and toxicology in risk assessment. It considers the sources of uncertainty inherent in estimates of reference doses and cancer potencies derived from animal studies, in vitro analyses and structure-activity relationships, and effect estimates from epidemiological studies and introduces approaches for characterization and analysis of the propagation of uncertainty. With this knowledge in hand, we explore the impact of uncertainty on decisions, both about emissions control and about research needs.
We seek a set of principles, solidly grounded in theory, and a toolbox of approaches for applying these principles, which will support more informed decision making about environmental controls.

Prerequisites: EH 206: Foundations of Environmental Health OR in previous years -- RDS 500: Risk Assessment and EH 510: Exposure Assessment OR permission of instructor.

Requirements: EH 206 OR RDS 500 & EH 510 OR Instructor Permission

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Environmental Health 945S Section: 1

Applied Practice and Integrative Learning Experience for Occupational and Environmental Health (211121)

Stefanos Kales

Justin Yang

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 10

EH 945S is a degree requirement for students the 45-credit MPH program in the Occupational and Environmental Health field of study. Together with ID 263, this course fulfills the practicum requirement.

Students in the Master of Public Health program are required to develop and conduct a supervised project (practicum) addressing a clinical or public health question of interest. The practicum is arranged by the student on an individual basis with a host organization and may include any aspect of occupational and environmental health and safety. The expected time commitment is 120 hours. Students work with a host organization under the supervision of a preceptor (site supervisor) for their practicum and are expected to arrange the details of their practicum with the preceptor and obtain guidance and feedback throughout the project. Students submit a brief proposal (the Learning Agreement) which must be approved by the preceptor and the course instructor prior to starting their practicum work. The course culminates with an on-campus presentation of the results of the practicum in Spring 2. The course does not have formal meeting times, as students are expected to meet with the course instructor independently to develop the practicum project and then at the end of the course for the presentation.

Requirements: Course restricted to students in the MPH-45 OEH Field of Study

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |

## Subject: Interdepartmental

### Interdepartmental 215 Section: 1

Environmental and Occupational Epidemiology (190751)

Marc Weisskopf

Tamarra James-Todd

2025 Spring (2.5 Credits) Schedule: W 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 68

This course examines application of epidemiologic methods to environmental and occupational health problems. Objectives are to review methods used in evaluating the health effects of physical and chemical agents in the environment, to review available evidence on the health effects of such exposures, and to consider policy questions raised by the scientific evidence. Topics include lectures on methodology, seminars on the review and criticism of current literature, and presentations by outside experts on specific environmental and occupational health issues of current interest.

Course Prerequisites: ID201 or [EPI201 and (BST 201 or PHS2000A)]. Concurrent registration with instructor permission only.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students

Wave 2 | DrPH Students & Wave 1
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Pre-requisites: ID201 or [EPI201 and (BST201 or PHS2000A)]. Concurrent registration with instructor permission only.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 1: School-Wide Core Requirement |

## Interdepartmental 263 Section: 1

Practice of Occupational Health (190774)

John Price

| | | | |
|---|---|---|---|
| 2025 Spring (5 Credits) | | Schedule: | W 0800 AM - 1115 AM |
| Instructor Permissions: | None | Enrollment Cap: | 25 |

Focuses on the assessment of workplace hazards, the physiology and biomechanical aspects of work, and a practical problem-solving approach to health problems in various work settings. Emphasizes the relationship between working conditions and health, with special reference to the recognition, measurement, and control of occupational hazards.

Course Note: MPH 45 students will meet the practicum requirement for the OEH field of study through supplemental project deliverables during the course.

Course Activities: Oral and written projects, class discussions, four walk-through field trips to local industries

(field trips may take up to four hours).

Course Requirement: EH 262 recommended.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Interdepartmental 271 Section: 1

Advanced Regression for Environmental Epidemiology (190782)

Joel Schwartz

Antonella Zanobetti

2025 Spring (2.5 Credits) Schedule: R 0100 PM - 0330 PM
T 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 30

This course covers applied advanced regression analysis. Its focus is on relaxing classical assumptions in regression analysis to better match what epidemiological data really looks like. Specifically, the course will cover nonlinear exposure-response relationships and repeated measure designs, including non-parametric and semi-parametric smoothing techniques, generalized additive models, quantile regression, and time series models. In addition to the theoretical material, students will apply these techniques using R to actual datasets including modeling the effects of environmental exposures on health outcomes. These techniques also are widely applicable to problems in infectious disease, psychiatric, nutritional, occupational, and cancer epidemiology.

Course Activities: Lectures and structured workshops in the instructional computer facility.

Course Note: Basic biostatistics and a course in regression analysis recommended.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EH Department Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

# Epidemiology

## Subject: Epidemiology

### Epidemiology 203 Section: 1

Study Design in Epidemiologic Research (190270)

Sonia Hernandez-Diaz

Marc Lipsitch

| | | | |
|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | TR 0345 PM - 0515 PM |
| Instructor Permissions: | None | Enrollment Cap: | 165 |

Beginning with the randomized clinical trial as a paradigm, this course examines common problems in the design, analysis, and interpretation of observational studies. Cohort and case-control studies are the focus of the discussion, but not to the exclusion of other designs. Problems of exposure and disease definitions, time-dependent effects, confounding, and misclassification are considered in the light of data sources typically available. Relevant statistical methods are introduced but not developed in detail.

Course Prerequisites: EPI202 and (BIO200 or ID200 or BST201 or BST202&203 or BST206&207/8/9 or PHS 2000A). All prerequisites may be taken concurrently.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | SM1 EPI, SM2 EPI, SD EPI, PhD PHS
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Pre-requisites: EPI202 and (BIO200 or ID200 or BST201 or BST202&203 or BST206&207/8/9 or PHS2000A). May be taken concurrently.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 204 Section: 1

Analysis of Case-Control, Cohort and Other Epidemiologic Data (190271)

Mingyang Song

2025 Spring (2.5 Credits) Schedule: MW 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 77

Course Description
This course will examine, through practical examples, the use of regression methods for analyses of epidemiologic data, primarily case-control and cohort studies. Methods used will include linear, logistic, Poisson, conditional logistic, and Cox regression models. Matched analysis for case-control and cohort studies will also be covered. The lectures will focus on the principle ideas and issues underlying the regression analyses, and the computer labs will provide practical experience applying those methods, using R software (two identical sessions for each). Issues to be dealt with include dose-response, confounding, violation of standard assumptions, and interaction. It will emphasize analysis and interpretation of results in the context of the study design. Familiarity with basic R is required.

Course Activities: Written group projects, class discussion, quizzes, homework.

Course Note: Computer lab is required, please sign up for one lab session when registering.

Course Pre-requisites: (BST210 (concurrent enrollment allowed) or BST213 or PHS2000A/B) and (EPI200 or EPI201 or EPI208 or EPI505) and EPI202

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EPI (1st year students); SM1, SM2,
Wave 2 | EPI (2nd year students and beyond); SM1, SM2, NUT PHS
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59

PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Pre-requisites: (BST210 (concurrent enrollment allowed) or BST213 or PHS2000A/B) and (EPI200 or EPI201 or EPI208 or EPI505) and EPI202

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 204LAB Section: 1

Analysis of Case-Control, Cohort and Other Epidemiologic Data (213562)

Mingyang Song

2025 Spring (0 Credits) Schedule: R 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 48

Course Description
This course will examine, through practical examples, the use of regression methods for analyses of epidemiologic data, primarily case-control and cohort studies. Methods used will include linear, logistic, Poisson, conditional logistic, and Cox regression models. Matched analysis for case-control and cohort studies will also be covered. The lectures will focus on the principle ideas and issues underlying the regression analyses, and the computer labs will provide practical experience applying those methods, using R software (two identical sessions for each). Issues to be dealt with include dose-response, confounding, violation of standard assumptions, and interaction. It will emphasize analysis and interpretation of results in the context of the study design. Familiarity with basic R is required.

Course Activities: Written group projects, class discussion, quizzes, homework.

Course Note: Computer lab is required, please sign up for one lab session when registering.

Course Pre-requisites: (BST210 (concurrent enrollment allowed) or BST213 or PHS2000A/B) and (EPI200 or EPI201 or EPI208 or EPI505) and EPI202

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EPI (1st year students); SM1, SM2,
Wave 2 | EPI (2nd year students and beyond); SM1, SM2, NUT PHS
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students are required to enroll in both EPI 204 and EPI 204LAB.

To enroll in a section of EPI 204LAB, students must enroll in EPI 204 first.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |

## Epidemiology 204LAB Section: 2

Analysis of Case-Control, Cohort and Other Epidemiologic Data (213562)

Mingyang Song

2025 Spring (0 Credits) Schedule: F 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 48

Course Description
This course will examine, through practical examples, the use of regression methods for analyses of epidemiologic data, primarily case-control and cohort studies. Methods used will include linear, logistic, Poisson, conditional logistic, and Cox regression models. Matched analysis for case-control and cohort studies will also be covered. The lectures will focus on the principle ideas and issues underlying the

regression analyses, and the computer labs will provide practical experience applying those methods, using R software (two identical sessions for each). Issues to be dealt with include dose-response, confounding, violation of standard assumptions, and interaction. It will emphasize analysis and interpretation of results in the context of the study design. Familiarity with basic R is required.

Course Activities: Written group projects, class discussion, quizzes, homework.

Course Note: Computer lab is required, please sign up for one lab session when registering.

Course Pre-requisites: (BST210 (concurrent enrollment allowed) or BST213 or PHS2000A/B) and (EPI200 or EPI201 or EPI208 or EPI505) and EPI202

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EPI (1st year students); SM1, SM2,
Wave 2 | EPI (2nd year students and beyond); SM1, SM2, NUT PHS
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students are required to enroll in both EPI 204 and EPI 204LAB.

To enroll in a section of EPI 204LAB, students must enroll in EPI 204 first.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 205.1 Section: 1

Practice of Epidemiology (220094)

Eric Rimm

Heather Eliassen

2025 Spring (1.25 Credits) Schedule: F 0200 PM - 0400 PM

Instructor Permissions: None Enrollment Cap: 21

The seminars consist of student presentations of plans for collection and analysis of epidemiological data (typically for the doctoral dissertation), with discussion by students and faculty, mostly in Fall 2. Preparatory work is done under tutorial arrangements with members of the faculty in Spring 1. The emphasis is on conceptual issues necessary for the development of a feasible and informative epidemiological study.

Course Activities: Individual student grant proposal and presentation, class discussion, and student and faculty critiques.

Prerequisite: at least a full year of epidemiology methods and biostatistics methods. Two years of such courses is strongly preferred.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH:Year Long Course | HSPH:Year Long Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

## Epidemiology 213 Section: 1

Epidemiology of Cancer (190280)

Lorelei Mucci

Edward Giovannucci

2025 Spring (2.5 Credits) Schedule: TR 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 67

This course provides an overview of the concepts and issues central to the discipline of cancer epidemiology. We delve into the descriptive epidemiology of cancer as well as analytical epidemiology to explore cancer risk

factors and preventive factors. The lectures cover topics on specific cancer exposures, including tobacco, obesity, infections, and nutrition, as well as the epidemiology of selected malignancies, including breast, prostate, colon, ovarian, primary liver, and pancreatic cancers. Throughout the course, we highlight epidemiology concepts and study design issues central to the study of cancer.

Course Activities: Journal article critique, group discussion, descriptive epidemiology project of a specific cancer, a final quiz

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 223 Section: 1

Cardiovascular Epidemiology I (190290)

Monik Botero

2025 Spring (2.5 Credits) Schedule: MW 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 32

This course reviews the epidemiology of cardiovascular disease, including the major cardiovascular diseases, related conditions, emerging risk factors, and current controversies. The principal methods used, and their limitation, will also be discussed. Both historically important and current research will be presented. Grades are based on participation in class discussions, brief written paper critiques, and an in-class presentation. There is no midterm or final exam.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |
| eForm Autosubmitter | Auto Submitter |

## Epidemiology 230 Section: 1

Religion, Well-being, and Public Health (190297)

Tyler VanderWeele

Kate Long

2025 Spring (2.5 Credits) Schedule: MTWRF 0945 AM - 1115 AM
MTWRF 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 40

The course will give an overview of the current state of research on the relationship between religion, well-being, and public health. Over the past three decades, the research literature documenting these relationships has grown dramatically. Evidence has accumulated that religious participation has beneficial effects on all-cause mortality, mental health, cardiovascular disease survival, cancer survival, health behaviors, meaning and purpose, happiness and life satisfaction, social relationships, volunteering, and civic engagement. The course will provide a basic introduction to well-being research and will review the research studies that have been conducted in this area, with a focus on some of the measurement and methodological challenges faced in this research. The course will explore future research directions in religion and well-being, as well as questions of relevance to the public health implications of the research. Specific topics will include religious participation and longevity; religion, mental health, and psychological well-being; religion and character development; forgiveness and gratitude; and partnerships between religious organizations and public health institutions, including the various tensions encountered in such partnerships. Attention will be given throughout to questions of measurement, study design, and methodology, and the challenges in conducting rigorous research in this area. Throughout the course, guest speakers will provide a

range of perspectives and applications of key course themes.

Course Prerequisite(s): ID538 or ID200 or [(BIO200 or BIO201 or BIO202&203 or BIO206&207/8/9 or PHS2000A) and (EPI201 or EPI208 or EPI500 or EPI505 or ID201)]; may not be taken concurrently

Requirements: Pre-requiesites: ID538 or ID200 or [(BIO200 or BIO201 or BIO202&203 or BIO206&207/8/9 or PHS2000A) and (EPI201 or EPI208 or EPI500 or EPI505 or ID201)]; may not be taken concurrently.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Classification | Odd Year Class |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 233 Section: 1

Research Synthesis & Meta-Analysis (190299)

Ibraheem Abioye

2025 Spring (2.5 Credits) Schedule: W 0345 PM - 0515 PM
W 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 48

Concerned with the explosion of biological data for etiologic inquiry and the use of existing data to inform public health decision-making, the course focuses on research synthesis and meta-analysis. This course provides an introduction to the rationale, methods, and implications for conducting a synthesis of research findings. You will receive step-by-step guidance on how to conduct and evaluate systematic reviews that may also include a meta-analysis. The course will introduce research databases, reference management software, pooled estimates and sources of heterogeneity and bias, and practical applications.

Course Activities: Students will learn the principles of a systematic review, to use existing meta-analysis software to apply principles outlined in the course on example data sets, and, on a topic of their choice, to conduct a critical review or meta-analysis that appropriately weights effect estimates in each study, assesses uncertainty, and incorporates other kinds of scientific data in the overall analysis.

Pre-Requisites: Working knowledge of R or Stata and basic programming skills. Classes will be taught in R,

but support for Stata will be available .

No auditing. This course may only be taken for credit.

Requirements: Course Restricted to HSPH Degree Students and PHD-PHS students who have completed at least 1 semester and have not taken BST 225

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Class Cancellation | Second Year Cancellation |

## Epidemiology 235 Section: 1

Epidemiologic Methods in Health Services Research (190301)

Julie Lauffenburger

Rishi Desai

2025 Spring (2.5 Credits) Schedule: TR 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 40

This course is designed to introduce students to the application of standard and advanced epidemiologic methods to health services research (HSR). Students will learn to recognize the principles of epidemiology in HSR and applications in comparative effectiveness and patient-centered outcomes research, and understand the terminology and methods specific to the field. Threats to validity, including confounding and selection bias, and methods for their control will be discussed in a variety of settings, especially in studies of electronic databases, such as administrative claims and electronic health record data. Topics include time-series designs, prediction modeling/machine learning, evaluation of cost and quality outcomes, treatment adherence, geography and socioeconomic status, digital epidemiology, pragmatic trials, and research embedded within health care systems. The course is focused primarily on practical applications of these approaches, often with medication-based examples. The clinical, economic, policy, and public health impact of HSR will also be discussed.

Course prerequisites: Pre-requisites: (ID200 or BIO200 or ID201 or BST201 or BST202&203 or BST206&207/8/9) AND (ID200 or EPI200 or EPI201 or EPI208 or EPI500 or ID201 or EPI505); may be taken concurrently.
Non-HSPH students must request instructor permission

Requirements: Pre-requisites: (ID200 or BIO200 or ID201 or BST201 or BST202&203 or BST206&207/8/9) AND (ID200 or EPI200 or EPI201 or EPI208 or EPI500 or ID201 or EPI505); may be taken concurrently. non-HSPH students must request instructor permission

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |

## Epidemiology 254 Section: 1

Epidemiology of Aging (190317)

Yuan Ma

Albert Hofman

2025 Spring (2.5 Credits) Schedule: MW 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 24

This course will cover epidemiologic concepts and methods related to age-related diseases, general health issues, and emerging concepts related to aging in older adults. Topics include an overview of aging epidemiology, methods related to descriptive and analytical epidemiological studies of aging, major age-related diseases, and emerging concepts related to aging. Upon completion, students will be equipped to critically discuss public health issues related to aging, evaluate epidemiological studies on age-related diseases, address methodological challenges in aging research, and conduct research projects with a focus on older adults' specific context.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Classification | Even Year Class |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 3: Essential Course |

## Epidemiology 260 Section: 1

Mathematical Modeling of Infectious Diseases (190321)

Marc Lipsitch

Emmanuelle Dankwa

2025 Spring (2.5 Credits) Schedule: WF 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 30

This course will cover selected topics and techniques in the use of dynamical models to study the transmission dynamics of infectious diseases. Class sessions will primarily consist of lectures and demonstrations of modeling techniques. Techniques will include design and construction of appropriate differential equation models, equilibrium and stability analysis, parameter estimation from epidemiological data, determination and interpretation of the basic reproductive number of an infection, techniques for sensitivity analysis, and critique of model assumptions. Specific topics will include the use of age-seroprevalence data, the effects of population heterogeneity on transmission, stochastic models and the use of models for pathogens with multiple strains. This course is designed for students with a basic understanding of mathematical modeling concepts who want to develop models for their own work.

Course Note: Previous course in calculus is required
Course Prerequisite(s): EPI501; may be taken concurrently.

Class Notes: EPI 260 will meet in Kresge 200 every day except Friday 3/31 when it is in Kresge LL6.

Requirements: Pre-requisites: EPI501; may be taken concurrently.
Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Classification | Odd Year Class |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 3: Essential Course |

## Epidemiology 271 Section: 1

Propensity Score Analysis: Theoretical & Practical Considerations (190324)

Tobias Kurth

John Seeger

2025 Spring (1.25 Credits) Schedule: TWRF 0800 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 64

This course introduces basic and advanced theory underlying propensity score analyses and provides practical insights into the conduct of studies employing the method. Course readings will include propensity score theory as well as applications. Lectures are complemented by computer lab sessions devoted to the mechanics of estimating and using the propensity score as a tool to control for confounding in observational research. Students should have knowledge in multivariable modeling approaches. A course project will involve the application of propensity scores to a data set or the review of a related, published paper.

Course Activities: Lectures, readings, homeworks, computer labs, participation, project.
Course Prerequisite(s): EPI204 or EPI236 or BST210 or BST213; may not be taken concurrently. Or PHS 2000A
Concurrent enrollment allowed.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | PhD PHS EPI, EPI SM1, EPI SM2
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment
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Priority Wave Timing
Wave 1 | 11/14/2024 11:00 AM - 11/24/2024 11:59 PM
Wave 2 | 11/25/2024 11:00 AM - 11/27/2024 11:59 PM
Wave 3 | 11/28/2024 12:00 AM - Enrollment Deadline

(varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)
**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Course Prerequisite(s): EPI204 or EPI236 or BST210 or BST213; may not be taken concurrently. Or PHS 2000A Concurrent enrollment allowed.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 284 Section: 1

Epidemiology of Neurologic Diseases (190327)

Kjetil Bjornevik

Alberto Ascherio

2025 Spring (2.5 Credits) Schedule: TR 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 45

This course is designed to introduce students to the epidemiology of major neurologic diseases. The emphasis will be both on research methods and on substantive issues. The course will stress etiologic and research integrating epidemiology with clinical and pathological aspects. We will discuss several neurological diseases, such as multiple sclerosis, Alzheimer's disease, dementia, Parkinson's disease, and amyotrophic lateral sclerosis, among others.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Epidemiology 288 Section: 2

Introduction to Machine Learning and Risk Prediction (190331)

Olga Demler

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 46

Introduces machine learning and risk prediction methods with applications to clinical data. The basic concepts of supervised and unsupervised machine learning methods, as well as appropriate applications will be discussed. Topics covered will include regularized regression techniques (ridge and lasso regressions), tree-based algorithms (classification and regression trees and random forests), deep learning methods (including convolutional neural networks), unsupervised methods (principal component analysis, t-SNE and UMAP) and other methods. We will discuss concepts necessary to train prognostic and diagnostic models, such as cross-validation, boosting, adjustments for multiple comparisons, overfitting, and algorithmic fairness.

Students enrolled in the MPH-EPI program have priority enrollment in this course. MPH-GEN and Summer-focused students, who meet the prerequisites may waitlist themselves without receiving instructor permission. All academic year students must request instructor permission prior to adding themselves to the waitlist.

Meeting Note: This is an online course with pre-recorded lectures; live online office hours, and seminars that will also be recorded and shared with the class. Therefore, this course will not have specific lecture meeting times.

Prerequisite: To enroll, students must have received a grade in one of the following classes: EPI 522, EPI 236, BST 210, BST 213, or BST 215. Or permission of the instructor.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH-EPI Students
Wave 2 | MPH-EPI, MPH-GEN, MPH Summer-Focused
Wave 3 | MPH-GEN, MPH-EPI, MPH Summer-Focused and approved petitioners

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Requirements: To enroll, students must have received a grade in one of the following classes: EPI 522, EPI 236, BST 210, BST 213, or BST 215. Or permission of the instructor.

Student must be in the MPH-EPI program or a summer-only degree program. Other students can enroll with permission of the instructor.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Indpt. Study / Research | NO |

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |

## Epidemiology 289 Section: 1

Epidemiologic Methods III: Models for Causal Inference (190332)

Barbra Dickerman

Joy Shi

| | | | |
|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | MW 0945 AM - 1115 AM |
| Instructor Permissions: | None | Enrollment Cap: | 72 |

Causal Inference is a fundamental component of epidemiologic research. EPI289 describes models for causal inference, their application to epidemiologic data, and the assumptions required to endow the parameter estimates with a causal interpretation. The course introduces outcome regression, propensity score methods, the parametric g-formula, inverse probability weighting of marginal structural models, g-estimation of nested structural models, and instrumental variable methods. Each week students are asked to analyze the same data using a different method.

EPI289 is designed to be taken after EPI201/EPI202 and before EPI204 and EPI207. Epidemiologic concepts and methods studied in EPI201/202 will be reformulated within a modeling framework in EPI289. This is the first course in the sequence of EPI core courses on modeling (EPI289, EPI204, EPI207). EPI289 focuses on time-fixed dichotomous exposures and time-fixed dichotomous and continuous outcomes. Continuous exposures and failure time outcomes (survival analysis) will be discussed in EPI204, and time-varying exposures in EPI207. Familiarity with R language is required for both the lecture and lab.

Course Prerequisite(s): [(EPI 201 or EPI 208 or EPI 500) and (EPI 202 or EPI 202s)]

Class Notes:

Please note: Students must be enrolled in both EPI 289 (lecture) and an EPI 289 Lab to complete this enrollment. If you are enrolled in EPI 289 and not enrolled in a corresponding lab , you will be dropped from EPI 289 when the enrollment deadline has passed. Students on the waitlist are not officially enrolled in a lab.

THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EPI SM1, SM2, PHD PHS EPI
Wave 2 | EPI SM1, SM2, PHD PHS EPI, MPH QM
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Course Prerequisite(s): [(EPI 201 or EPI 208 or EPI 500) and (EPI 202 or EPI 202s)] or [(ID 207 & ID 208)]
Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 289LAB Section: 1

Epidemiologic Methods III: Models for Causal Inference (213564)

Barbra Dickerman

Joy Shi

2025 Spring (0 Credits) Schedule: W 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 14

Course Description

Causal Inference is a fundamental component of epidemiologic research. EPI289 describes models for causal inference, their application to epidemiologic data, and the assumptions required to endow the parameter estimates with a causal interpretation. The course introduces outcome regression, propensity score methods, the parametric g-formula, inverse probability weighting of marginal structural models, g-estimation of nested structural models, and instrumental variable methods. Each week students are asked to analyze the same data using a different method.

EPI289 is designed to be taken after EPI201/EPI202 and before EPI204 and EPI207. Epidemiologic concepts and methods studied in EPI201/202 will be reformulated within a modeling framework in EPI289. This is the first course in the sequence of EPI core courses on modeling (EPI289, EPI204, EPI207). EPI289 focuses on time-fixed dichotomous exposures and time-fixed dichotomous and continuous outcomes. Continuous exposures and failure time outcomes (survival analysis) will be discussed in EPI204, and time-varying

exposures in EPI207. Familiarity with R language is required for both the lecture and lab.

Course Prerequisite(s): [(EPI 201 or EPI 208 or EPI 500) and (EPI 202 or EPI 202s)]

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EPI SM1, SM2, PHD PHS
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students are required to enroll in both EPI 289 and EPI 289LAB.

To enroll in a section of EPI 289LAB, students must first enroll in EPI 289

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 289LAB Section: 2

Epidemiologic Methods III: Models for Causal Inference (213564)

Barbra Dickerman

Joy Shi

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|---|---|---|---|
| 2025 Spring (0 Credits) | | Schedule: | W 1130 AM - 0100 PM |
| Instructor Permissions: | None | Enrollment Cap: | 13 |

Course Description

Causal Inference is a fundamental component of epidemiologic research. EPI289 describes models for causal inference, their application to epidemiologic data, and the assumptions required to endow the parameter estimates with a causal interpretation. The course introduces outcome regression, propensity score methods, the parametric g-formula, inverse probability weighting of marginal structural models, g-estimation of nested structural models, and instrumental variable methods. Each week students are asked to analyze the same data using a different method.

EPI289 is designed to be taken after EPI201/EPI202 and before EPI204 and EPI207. Epidemiologic concepts and methods studied in EPI201/202 will be reformulated within a modeling framework in EPI289. This is the first course in the sequence of EPI core courses on modeling (EPI289, EPI204, EPI207). EPI289 focuses on time-fixed dichotomous exposures and time-fixed dichotomous and continuous outcomes. Continuous exposures and failure time outcomes (survival analysis) will be discussed in EPI204, and time-varying exposures in EPI207. Familiarity with R language is required for both the lecture and lab.

Course Prerequisite(s): [(EPI 201 or EPI 208 or EPI 500) and (EPI 202 or EPI 202s)]

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EPI SM1, SM2, PHD PHS
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students are required to enroll in both EPI 289 and EPI 289LAB.

To enroll in a section of EPI 289LAB, students must first enroll in EPI 289

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

## Epidemiology 289LAB Section: 3

Epidemiologic Methods III: Models for Causal Inference (213564)

Barbra Dickerman

Joy Shi

2025 Spring (0 Credits) Schedule: W 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 13

Course Description

Causal Inference is a fundamental component of epidemiologic research. EPI289 describes models for causal inference, their application to epidemiologic data, and the assumptions required to endow the parameter estimates with a causal interpretation. The course introduces outcome regression, propensity score methods, the parametric g-formula, inverse probability weighting of marginal structural models, g-estimation of nested structural models, and instrumental variable methods. Each week students are asked to analyze the same data using a different method.

EPI289 is designed to be taken after EPI201/EPI202 and before EPI204 and EPI207. Epidemiologic concepts and methods studied in EPI201/202 will be reformulated within a modeling framework in EPI289. This is the first course in the sequence of EPI core courses on modeling (EPI289, EPI204, EPI207). EPI289 focuses on time-fixed dichotomous exposures and time-fixed dichotomous and continuous outcomes. Continuous exposures and failure time outcomes (survival analysis) will be discussed in EPI204, and time-varying exposures in EPI207. Familiarity with R language is required for both the lecture and lab.

Course Prerequisite(s): [(EPI 201 or EPI 208 or EPI 500) and (EPI 202 or EPI 202s)]

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EPI SM1, SM2, PHD PHS

Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students are required to enroll in both EPI 289 and EPI 289LAB.

To enroll in a section of EPI 289LAB, students must first enroll in EPI 289

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 289LAB Section: 4

Epidemiologic Methods III: Models for Causal Inference (213564)

Barbra Dickerman

Joy Shi

2025 Spring (0 Credits) Schedule: W 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 13

Course Description

Causal Inference is a fundamental component of epidemiologic research. EPI289 describes models for causal inference, their application to epidemiologic data, and the assumptions required to endow the parameter

estimates with a causal interpretation. The course introduces outcome regression, propensity score methods, the parametric g-formula, inverse probability weighting of marginal structural models, g-estimation of nested structural models, and instrumental variable methods. Each week students are asked to analyze the same data using a different method.

EPI289 is designed to be taken after EPI201/EPI202 and before EPI204 and EPI207. Epidemiologic concepts and methods studied in EPI201/202 will be reformulated within a modeling framework in EPI289. This is the first course in the sequence of EPI core courses on modeling (EPI289, EPI204, EPI207). EPI289 focuses on time-fixed dichotomous exposures and time-fixed dichotomous and continuous outcomes. Continuous exposures and failure time outcomes (survival analysis) will be discussed in EPI204, and time-varying exposures in EPI207. Familiarity with R language is required for both the lecture and lab.

Course Prerequisite(s): [(EPI 201 or EPI 208 or EPI 500) and (EPI 202 or EPI 202s)]

| | |
|---|---|
| Class Notes: | THIS CLASS HAS PRIORITY ENROLLMENT<br><br>Priority Wave Groups<br>Wave 1 \| EPI SM1, SM2, PHD PHS<br>Wave 2 \| Open Enrollment<br>Wave 3 \| Open Enrollment<br><br>---<br><br>Priority Wave Timing<br>Wave 1 \| 1/9/2025 11:00 AM - 1/19/2025 11:59 PM<br>Wave 2 \| 1/20/2025 12:00 AM - 1/22/2025 11:59 PM<br>Wave 3 \| 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)<br><br>Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)<br><br>**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course |
| Requirements: | Students are required to enroll in both EPI 289 and EPI 289LAB.<br><br>To enroll in a section of EPI 289LAB, students must first enroll in EPI 289 |

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 289LAB Section: 5

Epidemiologic Methods III: Models for Causal Inference (213564)

Barbra Dickerman

Joy Shi

| | | | |
|---|---|---|---|
| 2025 Spring (0 Credits) | | Schedule: | W 0345 PM - 0515 PM |
| Instructor Permissions: | None | Enrollment Cap: | 12 |

Course Description

Causal Inference is a fundamental component of epidemiologic research. EPI289 describes models for causal inference, their application to epidemiologic data, and the assumptions required to endow the parameter estimates with a causal interpretation. The course introduces outcome regression, propensity score methods, the parametric g-formula, inverse probability weighting of marginal structural models, g-estimation of nested structural models, and instrumental variable methods. Each week students are asked to analyze the same data using a different method.

EPI289 is designed to be taken after EPI201/EPI202 and before EPI204 and EPI207. Epidemiologic concepts and methods studied in EPI201/202 will be reformulated within a modeling framework in EPI289. This is the first course in the sequence of EPI core courses on modeling (EPI289, EPI204, EPI207). EPI289 focuses on time-fixed dichotomous exposures and time-fixed dichotomous and continuous outcomes. Continuous exposures and failure time outcomes (survival analysis) will be discussed in EPI204, and time-varying exposures in EPI207. Familiarity with R language is required for both the lecture and lab.

Course Prerequisite(s): [(EPI 201 or EPI 208 or EPI 500) and (EPI 202 or EPI 202s)]

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EPI SM1, SM2, PHD PHS
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59

PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students are required to enroll in both EPI 289 and EPI 289LAB.

To enroll in a section of EPI 289LAB, students must first enroll in EPI 289

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 289LAB Section: 6

Epidemiologic Methods III: Models for Causal Inference (213564)

Barbra Dickerman

Joy Shi

2025 Spring (0 Credits) Schedule: W 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 12

Course Description

Causal Inference is a fundamental component of epidemiologic research. EPI289 describes models for causal inference, their application to epidemiologic data, and the assumptions required to endow the parameter estimates with a causal interpretation. The course introduces outcome regression, propensity score methods, the parametric g-formula, inverse probability weighting of marginal structural models, g-estimation of nested structural models, and instrumental variable methods. Each week students are asked to analyze the same data using a different method.

EPI289 is designed to be taken after EPI201/EPI202 and before EPI204 and EPI207. Epidemiologic concepts

and methods studied in EPI201/202 will be reformulated within a modeling framework in EPI289. This is the first course in the sequence of EPI core courses on modeling (EPI289, EPI204, EPI207). EPI289 focuses on time-fixed dichotomous exposures and time-fixed dichotomous and continuous outcomes. Continuous exposures and failure time outcomes (survival analysis) will be discussed in EPI204, and time-varying exposures in EPI207. Familiarity with R language is required for both the lecture and lab.

Course Prerequisite(s): [(EPI 201 or EPI 208 or EPI 500) and (EPI 202 or EPI 202s)]

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | EPI SM1, SM2, PHD PHS
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students are required to enroll in both EPI 289 and EPI 289LAB.

To enroll in a section of EPI 289LAB, students must first enroll in EPI 289

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 293 Section: 1

Analysis of Genetic Association Studies (190335)

Liming Liang

| | | | |
|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | R 0200 PM - 0400 PM<br>MTWR 0200 PM - 0515 PM<br>TW 0900 AM - 1115 AM |
| Instructor Permissions: | None | Enrollment Cap: | 30 |

At the end of this course students will grasp Concept and Theory, Methods and Software Tools needed to critically evaluate and conduct genetic and genomic association studies in unrelated individuals and family samples, including: basic molecular and population genetics, marker selection algorithms, haplotyping, multiple comparisons issues, population stratification, genome-wide association studies, genotype imputation, gene-gene and gene-environment interaction, analysis of microarray data (including gene expression, methylation data analysis, eQTL mapping), next-generation sequencing data analysis and genetics simulation studies. Useful software tools will be introduced and practiced in labs and projects. Students interested in methodology development will find interesting research topics to pursue further. Students interested in application will learn cutting-edge methods and tools for their ongoing projects. Course materials will be updated according to the fast-growing areas of genomics and other omics studies.

Course note: Familiarity with R and UNIX computing environment are highly recommended. Source codes for all lab projects will be provided. Students are encouraged to discuss course prerequisites with the instructor.

Course Prerequisite(s): BST201 and (BST210 or BST213 or EPI204) and (ID200 or EPI200 or EPI201 or EPI505 or EPI500 or ID201); may not be taken concurrently.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups

Wave 1 | SM2 CBQG

Wave 2 | Open Enrollment

Wave 3 | Open Enrollment

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Priority Wave Timing

Wave 1 | 11/14/2024 11:00 AM - 11/24/2024 11:59 PM
Wave 2 | 11/25/2024 11:00 AM - 11/27/2024 11:59 PM
Wave 3 | 11/28/2024 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add

themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Pre-requisites: (BST201) and (BST210 or BST213 or EPI204) and (ID200 or EPI200 or EPI201 or EPI505 or ID201); may not be taken concurrently. Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 300

Independent Study (190341)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Independent Study | HSPH Independent Study 300 |

## Epidemiology 300 Section: 002

Independent Study (190341)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Independent Study | HSPH Independent Study 300 |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |

## Epidemiology 300 Section: 003

Independent Study (190341)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Independent Study | HSPH Independent Study 300 |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 300 Section: 004

Independent Study (190341)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| HSPH: Independent Study | HSPH Independent Study 300 |

## Epidemiology 311 Section: 1

Teaching (190344)

Ibraheem Abioye

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

Time and credit to be arranged.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |

## Epidemiology 315 Section: 1

Research: Clinical Epidemiology (190345)

Pamela Rist

2025 Spring (1.25 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: 1998

All students who intend to complete the requirements for a Master of Science in Epidemiology based on only a summer schedule, are required to undertake and complete a clinical research project at their institution under the supervision of a local mentor and a member of the Harvard faculty. Five to 12.5 tutorial credits will be granted for this research. Each student is required to submit a written paper summarizing his or her research project. The exact content of this research project is determined by the faculty member assigned as principal advisor to the student. An appropriate content for this project might include the development of a research proposal to address a clinical question of interest, the implementation of this proposal with the collection of patient data, the analysis of these data, and the creation of a publishable manuscript (with detailed appendices) to describe the results of the analysis. Alternatively, part of this project might pertain to the creation of a full-fledged RO1 study protocol in the National Institutes of Health format, a publishable paper based on the analysis of existing data, a decision analysis, or a cost-effectiveness analysis.

Course Activities: Supervised research. Written progress reports must be submitted each semester.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 315 Section: 2

Research: Clinical Epidemiology (190345)

Pamela Rist

2025 Spring (1.25 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

All students who intend to complete the requirements for a Master of Science in Epidemiology based on only a summer schedule, are required to undertake and complete a clinical research project at their institution under the supervision of a local mentor and a member of the Harvard faculty. Five to 12.5 tutorial credits will be granted for this research. Each student is required to submit a written paper summarizing his or her research project. The exact content of this research project is determined by the faculty member assigned as principal advisor to the student. An appropriate content for this project might include the development of a research proposal to address a clinical question of interest, the implementation of this proposal with the collection of patient data, the analysis of these data, and the creation of a publishable manuscript (with detailed appendices) to describe the results of the analysis. Alternatively, part of this project might pertain to the creation of a full-fledged RO1 study protocol in the National Institutes of Health format, a publishable paper based on the analysis of existing data, a decision analysis, or a cost-effectiveness analysis.

Course Activities: Supervised research. Written progress reports must be submitted each semester.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 315 Section: 3

Research: Clinical Epidemiology (190345)

Pamela Rist

2025 Spring (1.25 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

All students who intend to complete the requirements for a Master of Science in Epidemiology based on only a summer schedule, are required to undertake and complete a clinical research project at their institution under the supervision of a local mentor and a member of the Harvard faculty. Five to 12.5 tutorial credits will be granted for this research. Each student is required to submit a written paper summarizing his or her research project. The exact content of this research project is determined by the faculty member assigned as principal advisor to the student. An appropriate content for this project might include the development of a research proposal to address a clinical question of interest, the implementation of this proposal with the collection of patient data, the analysis of these data, and the creation of a publishable manuscript (with detailed appendices) to describe the results of the analysis. Alternatively, part of this project might pertain to the creation of a full-fledged RO1 study protocol in the National Institutes of Health format, a publishable paper based on the analysis of existing data, a decision analysis, or a cost-effectiveness analysis.

Course Activities: Supervised research. Written progress reports must be submitted each semester.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |

## Epidemiology 315 Section: 4

Research: Clinical Epidemiology (190345)

Pamela Rist

2025 Spring (1.25 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

All students who intend to complete the requirements for a Master of Science in Epidemiology based on only a summer schedule, are required to undertake and complete a clinical research project at their institution under the supervision of a local mentor and a member of the Harvard faculty. Five to 12.5 tutorial credits will be granted for this research. Each student is required to submit a written paper summarizing his or her research project. The exact content of this research project is determined by the faculty member assigned as principal advisor to the student. An appropriate content for this project might include the development of a

research proposal to address a clinical question of interest, the implementation of this proposal with the collection of patient data, the analysis of these data, and the creation of a publishable manuscript (with detailed appendices) to describe the results of the analysis. Alternatively, part of this project might pertain to the creation of a full-fledged RO1 study protocol in the National Institutes of Health format, a publishable paper based on the analysis of existing data, a decision analysis, or a cost-effectiveness analysis.

Course Activities: Supervised research. Written progress reports must be submitted each semester.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |

## Epidemiology 350 Section: 1

Research (190348)

Alberto Ascherio

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 350 Section: 10

Research (190348)

Edward Giovannucci

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 103

Research (190348)

Marc Weisskopf

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 106

Research (190348)

Walter Willett

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 350 Section: 11

Research (190348)

Molin Wang

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 115

Research (190348)

Jordan Smoller

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 118

Research (190348)

Joshua Gagne

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 124

Research (190348)

Alkes Price

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 128

Research (190348)

Joshua Gagne

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 129

Research (190348)

Douglas Dockery

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 13

Research (190348)

Earl Cook

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 132

Research (190348)

Michele Hacker

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 350 Section: 135

Research (190348)

Liming Liang

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 138

Research (190348)

Heather Eliassen

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 14

Research (190348)

Barbra Dickerman

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 141

Research (190348)

Lori Chibnik

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 144

Research (190348)

Bill Hanage

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 147

Research (190348)

Timothy Rebbeck

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 153

Research (190348)

James Robins

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 159

Research (190348)

Tyler VanderWeele

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 16

Research (190348)

Immaculata De Vivo

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 160

Research (190348)

Francine Grodstein

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 161

Research (190348)

Sonia Hernandez-Diaz

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 165

Research (190348)

Goodarz Danaei

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 168

Research (190348)

Michelle Holmes

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 171

Research (190348)

Caroline Buckee

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 177

Research (190348)

Olivia Okereke

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 180

Research (190348)

Karestan Koenen

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 181

Research (190348)

Elise Robinson

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 184

Research (190348)

Tamarra James-Todd

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 187

Research (190348)

Brittany Charlton

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 190

Research (190348)

Krista Huybrechts

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 193

Research (190348)

Albert Hofman

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 2

Research (190348)

Mingyang Song

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 350 Section: 25

Research (190348)

Francine Grodstein

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 26

Research (190348)

Sereno Reisner

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 27

Research (190348)

Sereno Reisner

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 350 Section: 28

Research (190348)

Sereno Reisner

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 3

Research (190348)

Mauricio Santillana

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 350 Section: 31

Research (190348)

Russ Hauser

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 37

Research (190348)

Sonia Hernandez-Diaz

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 350 Section: 4

Research (190348)

Deborah Blacker

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 41

Research (190348)

Lisa Berkman

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 350 Section: 43

Research (190348)

Marian Hannan

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 46

Research (190348)

Peter Kraft

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 350 Section: 5

Research (190348)

Jessica Young

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 52

Research (190348)

Francine Laden

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 55

Research (190348)

I-Min Lee

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 58

Research (190348)

Marc Lipsitch

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 350 Section: 6

Research (190348)

Carmen Messerlian

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |

## Epidemiology 350 Section: 61

Research (190348)

Gary Curhan

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 64

Research (190348)

Murray Mittleman

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 350 Section: 67

Research (190348)

Lorelei Mucci

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Epidemiology 350 Section: 7

Research (190348)

Julie Buring

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 70

Research (190348)

Megan Murray

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 350 Section: 73

Research (190348)

Janet Rich-Edwards

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 76

Research (190348)

Eric Rimm

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 79

Research (190348)

Karestan Koenen

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 8

Research (190348)

Henning Tiemeier

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 82

Research (190348)

Sebastian Schneeweiss

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 85

Research (190348)

Joel Schwartz

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Epidemiology 350 Section: 9

Research (190348)

Issa Dahabreh

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 91

Research (190348)

Meir Stampfer

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 92

Research (190348)

Yuan Ma

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Epidemiology 350 Section: 93

Research (190348)

Yuan Ma

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 350 Section: 94

Research (190348)

Yuan Ma

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are

undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |

## Epidemiology 502 Section: 1

Biology and Epidemiology of Antibiotic Resistance (190353)

Marc Lipsitch

Gili Regev-Yochay

2025 Spring (2.5 Credits) Schedule: TR 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 20

This course will cover concepts and issues in bacterial antibiotic resistance relevant to epidemiologic research in this field. The student will obtain understanding of the significance of the problem, the biology and mechanism of antibiotic resistance, risk factors for spread and measures to prevent this emerging problem. We will specifically assess different research designs and strategies used to measure the magnitude, risk factors and prevention measures, and their interpretations. A few topics in antiviral resistance will also be covered.

Course Prerequisites: ID538 or [(BIO200 or ID200 or BIO201 or BIO202&203 or BIO206&207/8/9) and (EPI200 or EPI201 or EPI208 or EPI500 or EPI505)]; may not be taken concurrently.

Requirements: Prerequisites: ID538 or [(BST200 or ID200 or BST201 or BST202&BST203 or BST206&207/208/209) and (EPI200 or EPI201 or EPI208 or EPI500 or EPI505)]; may not be taken concurrently.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Classification | Odd Year Class |
| eForm Autosubmitter | Auto Submitter |

## Epidemiology 510 Section: 1

Global Cancer Epidemiology (190361)

Paolo Boffetta

Pagona Lagiou

2025 Spring (1.25 Credits) Schedule: MTWRF 0800 AM - 1130 AM

Instructor Permissions: None Enrollment Cap: 31

This course provides students an introduction to the global epidemiology of cancer as a tool to understand the worldwide pattern of cancer, the main risk factors operating in different regions, and the main approaches for cancer prevention and control. Emphasis is given to cancer in low- and medium-resource countries, including cancers of the liver, esophagus, cervix, and stomach.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |

## Epidemiology 511 Section: 1

Advanced Population & Med Genetics (190362)

Alkes Price

2025 Spring (5 Credits) Schedule: TR 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 32

Course Description
This course will cover quantitative topics in human population genetics and applications to medical genetics, including the HapMap project, linkage disequilibrium, population structure and stratification, population admixture, admixture mapping, and natural selection. The course is aimed at Epidemiology and Biostatistics students with a strong interest in statistical genetics, and is included in the Biostatistics Advanced Doctoral Core and Biostatistics Masters core. The course will emphasize hands-on analysis of large empirical data sets, thus requiring prior experience with a general-purpose high-level programming language such as Python or PERL. After taking this course, each student will have the experience and skills to develop and apply statistical methods to population genetic data.

Course Prerequisite(s): Prerequisites: BST273 (or equivalent programming experience in Python or PERL), and (BST227 or EPI293 or EPI507); may not be taken concurrently.
Students outside of HSPH must request instructor permission to enroll in this course

Enrollment Requirements
Prerequisites: BST273 (or equivalent programming experience in Python or PERL), and (BST227 or EPI293 or EPI507); may not be taken concurrently.

Requirements: Pre-requisites: BST273 (or equivalent programming experience in Python or PERL), and (BST227 or EPI293 or EPI507); may not be taken concurrently.

Students outside of HSPH must request instructor permission to enroll in this course.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Classification | Even Year Class |

## Epidemiology 517 Section: 1

Issues in Frailty (190366)

Andrea Schwartz

Dae Hyun Kim

2025 Spring (1.25 Credits) Schedule: T 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 30

While frailty is not a medical diagnosis and has no accepted definition, it is a key and growing concern in geriatric care and research in older adults. This course will examine the thematic issues related to frailty, including the idea of frailty as the consequence of failure to compensate for physiological stress in aging adults. The sessions will start with theme of failure to compensate and how this results in frailty as an outcome and quality of life, with a focus on methodological issues. The following sessions will present geriatric syndromes thought to derive from failure to compensate for physiological stress including delirium, sarcopenia or loss of muscle, fractures and falls, and failure in the musculoskeletal system. The impact of methodological issues, and interpretation and conclusions drawn from research in geriatric epidemiology will be emphasized. This 7-week survey course has no formal prerequisites, but some epidemiologic background or an understanding of basic epidemiologic principals is strongly recommended.

Students outside of HSPH must request instructor permission to enroll in this course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |
| eForm Autosubmitter | Auto Submitter |

## Epidemiology 524 Section: 1

Confounding Control: A Component of Causal Inference (190373)

Jessica Young

Sophia Rein

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 68

Causal inference is a core task in epidemiology. EPI 524 introduces a formal approach to causal inference

based on a reasoning process that starts with explicit articulation of the causal research question. The ultimate choice of statistical analysis is then driven by this choice of question along with assumptions, including assumptions about confounding and confounders. This introductory course is limited to the setting where interest is in a causal effect of a time-fixed treatment on either a continuous or binary outcome.

The material is generally split into two parts separated by two different types of causal assumptions. Part I will focus on reasoning under the assumption that all required confounders are measured in the data to be analyzed. Two types of statistical methods that may be justified for causal effect estimation under this reasoning will be introduced in Part I, standardization and inverse-probability weighting, where students will also learn to understand and reason critically about parametric model assumptions in the context of high dimensional confounding adjustment. Part II will focus on reasoning under alternative causal assumptions that do not require that all confounders are measured. In this case it is, instead, required that a so-called instrumental variable (IV) can be leveraged for causal inference. Statistical methods that follow from reasoning about IV conditions will be covered in this second part of the course.

EPI524 is expected to be taken after EPI522.

This course is for MPH-EPI students only, no exceptions
Prerequisites: EPI522 and MPH-EPI only. May not be taken concurrently

Requirements: Prerequisite: EPI522 and MPH-EPI; may not be taken concurrently

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Not Available for Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

## Epidemiology 525 Section: 1

Study Designs for Epidemiologists (190374)

Sonia Hernandez-Diaz

Issa Dahabreh

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 68

This course reviews the main study designs currently used to describe, predict, and investigate the causes of adverse health outcomes in humans. We will examine general principles, interpretation, strengths, and limitations of the study designs that are commonly used for population research. The course covers ecological, cross-sectional, cohort, case-control, and case-only designs in a number of different settings. Issues related to study population identification, exposure and disease definition and ascertainment,

misclassification, confounding, and generalizability are considered in the light of typically available data sources. Idiosyncrasies of several fields, from infectious disease to occupational epidemiology, and their relevance to the selection of an optimal study design are discussed. This course fulfills a core course requirement for the MPH in Epidemiology.

Requirements: Pre-requisites: ID207 and EPI522; may be taken concurrently. This course is for MPH-EPI students only, no exceptions.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |
| HSPH: Indpt. Study / Research | NO |

## Epidemiology 530 Section: 1

Introduction to Infectious Disease Modeling (211168)

Bill Hanage

2025 Spring (1.25 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 20

This course will introduce students to the conception and application of infectious disease modeling in epidemiology. We will cover the global burden of infectious diseases, the dynamics of infectious diseases with different transmission routes, simple modeling approaches to understand epidemic dynamics, and the ways in which models can be used to understand the mechanisms of transmission and the impacts of interventions. Case studies will be used to familiarize students with specific applications of the theoretical models discussed. Throughout, the emphasis will be on a practical understanding of how these methods can be used and on the rigorous evaluation of the modeling literature.

Class Notes: Students enrolled in the MPH-EPI program have priority enrollment in this course. MPH-GEN students will be automatically added to the waitlist. All other students must request instructor permission with priority of permission granted to students in a summer-only/ summer focused program. Students will be enrolled into the course (if space available) according to the following waves:

THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH-EPI Students
Wave 2 | MPH-EPI, MPH-GEN Students
Wave 3 | MPH-EPI, MPH-GEN, and approved petitioners

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59

PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Requirements: Program Requirements: MPH-EPI or Summer-Only HSPH degree students. Instructor permission required for all other students.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| HSPH: Program Affiliation | MPH-EPI |
| eForm Autosubmitter | Auto Submitter |

## Epidemiology 532 Section: 1

Introduction to Sleep Epidemiology (220635)

Susan Redline

2025 Spring (2.5 Credits) Schedule: MTWRF 0900 AM - 1200 PM
F -

Instructor Permissions: None Enrollment Cap: 20

Sleep is fundamental to health and well-being and is influenced by health-related behaviors, the social and physical environments, genetics, and health conditions. Disturbed and/or insufficient sleep can increase risk for behavioral morbidities, mood disturbances, poor quality of life, accidents, cognitive decline, chronic cardiometabolic diseases, and cancer. Sleep is increasingly recognized as a "fourth pillar of health" (along with diet, physical activity, and stress) in the sleep medicine community but the public health importance of sleep is less recognized despite increasing data indicating that sleep is strongly socially patterned—by socioeconomic status, race/ethnicity, immigrant status, stage of the life course, work experiences, stress, and neighborhood contexts- and a driver of health disparities.

This course will provide an introduction to sleep epidemiology with an aim of preparing you to better understand the growing literature addressing sleep health as drivers for health differences across populations, and provide you with the knowledge and tools to begin to integrate sleep measurements in your research studies and identify opportunities to inform public policy on approaches for promoting sleep health on a community-level. Topics include overviews of the basic science and clinical aspects of sleep and sleep disorders; social and environmental risk factors influencing sleep health; variation of sleep health across the lifespan and across populations; the influences of sleep on quality of life, mood, and chronic health conditions; and individual and community-wide interventions for improving sleep health.

Requirements: To be eligible for enrollment, students must have already received a grade in OR be currently enrolled in one of the following courses: ID 201 or EPI 201 or EPI 208 or EPI 500

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Epidemiology 542 Section: 1

Causal Mediation and Interaction (211150)

Linda Valeri

| | | | |
|---|---|---|---|
| 2025 Spring (1.25 Credits) | | Schedule: | TWRF 0945 AM - 0100 PM |
| Instructor Permissions: | None | Enrollment Cap: | 30 |

The course will approach concepts and methods for mediation and interaction from the perspective of the counterfactual framework. The first part of the course will be concerned with mediation analysis, that is, assessing the extent to which the effect of an exposure on some outcome is mediated through a particular intermediate and the extent to which it is direct or through other pathways. Definitions, theoretical identification results, and statistical techniques related to mediation analysis will be covered. The material in this part of the course will clarify the assumptions required for the estimation of direct and indirect effect and will extend the approach to mediation typically employed in epidemiology and the social sciences to settings with interactions, non-linearities and time-varying exposures. The second part of the course will cover concepts and methods for interaction. Conceptual issues concerning interaction, effect modification and the relation and non-correspondence of statistical and mechanistic notions of interaction will be discussed. Sensitivity analysis approaches and power and sample size calculations for interaction will be introduced. The course will conclude by providing a unifying framework for the assessment of mediation and interaction.

Pre-Requisites

EPI289 or EPI207 or PHS2000B or permission of the instructor. Familiarity with counterfactuals, and linear and logistic regression will be assumed. Some exposure to inverse probability of treatment weighting, marginal structural models, and causal diagrams will be helpful. Familiarity with SAS, Stata or R will be necessary to complete the assignments.

Requirements: Pre-Requisite: EPI 289 or EPI 207

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 4: Elective |

## Epidemiology 945S Section: 1

Applied Practice and Integrative Learning Experience for Epidemiology (208094)

Heather Baer

| | | | |
|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | TBD |
| Instructor Permissions: | Instructor | Enrollment Cap: | n/a |

All students completing a Master of Public Health degree must complete an Applied Practice Experience ("Practicum") and an Integrative Learning Experience (ILE). This required course is designed to meet both these degree requirements

Students in the Master of Public Health in Epidemiology (MPH-EPI) program are required to develop and

conduct a supervised project (practicum) addressing a clinical or public health question of interest. This practicum may include aspects of epidemiology, biostatistics, decision sciences, or other quantitative aspects of public health. All students are assigned a Harvard faculty member to be their mentor for the practicum. The Harvard mentor can be from the Harvard T.H. Chan School of Public Health or from one of the other schools at the University.
During the first year of the program, members of the MPH-EPI Practicum Committee assist students in selecting an appropriate practicum topic and identifying the Harvard faculty member who will be their mentor for the practicum. Students then submit a brief proposal (the draft Learning Agreement) which must be approved by the mentor and the MPH-EPI Practicum Committee. During the second year, students have regular online meetings with their mentor to obtain guidance and feedback on the project. They submit the final version of the Learning Agreement in the fall, and they submit progress reports during the fall and spring. The practicum culminates with a presentation of the results at the end of the spring semester, and there is a symposium in May, right before graduation.
Course Restricted to students in the 2nd year of the MPH-EPI program.

Requirements: Course Restricted to students in the 2nd Year of the MPH-EPI program

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Program Affiliation | MPH-EPI |
| All: Cross Reg Availability | Not Available for Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Epidemiology 946S Section: 1

Applied Practice and Integrative Learning Experience for Clinical Effectiveness (Academic Year) (208079)

Sachin Shah

Heather Baer

E. Orav

2025 Spring (2.5 Credits) Schedule: F 0800 AM - 0930 AM

Instructor Permissions: None Enrollment Cap: 60

All students completing a Master of Public Health degree must complete an Applied Practice Experience ("Practicum") and an Integrative Learning Experience (ILE). This required course is designed to meet both these degree requirements.

EPI 946F, SECTION 1 Sachin Shah (Primary Instructor), Heather Baer (Co-Instructor), E. John Orav (Co-Instructor)
This seminar course fulfills the Applied Practice Experience (APE, or "practicum") and Integrative Learning Experience (ILE) requirements for Academic-Year MPH in Clinical Effectiveness (MPH CLE) students. For their practicum, all MPH CLE students develop and conduct an applied analytic project that includes aspects of epidemiology, biostatistics, decision sciences, or other quantitative aspects of public health. The practicum culminates in a final presentation about their project during EPI 946, an on-campus seminar that meets on Friday mornings from 8-9:30 am. Students are required to attend the seminar to hear and comment on other students' presentations. Students will present on their own project during one of their two semesters in EPI 946, and during the other semester, they will write two critiques of other students' presentations. Students

are exposed to a variety of research designs, analytic strategies, and content areas, and there is active class discussion. Faculty emphasize methodologic issues pertinent to the class research presentation. In addition to the presentation, there is also a final paper about the project (the Integrative Learning Experience) that all students will submit in the Spring semester. This paper is written in the form of a draft manuscript for publication. Before registering for EPI 946, students should review the detailed information about the MPH CLE practicum included on this website: https://www.hsph.harvard.edu/public-health-practice-resources/for-students/mph-practicum-information/mph-practicum/clinical-effectiveness-practicum/

Course Activities: Student presentations and written assignments (e.g., analysis plan, critiques)

Course Note: Must register separately in each appropriate semester (Fall and Spring); separate grade given at the end of each semester. Instructor approval required for all NON-MPH CLE students.

Course Note: You must register in each appropriate semester (Fall and Spring, 2 semesters total); separate grade given at the end of each semester.

Requirements: Course Restricted to students in the Clinical Effectiveness (academic year) concentration.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |

## Epidemiology 947S Section: 1

Applied Practice Experience&Integrative Learning Experience for Clinical Effectiveness (SUM-focused) (208091)

Heather Baer

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

This course fulfills the Applied Practice Experience (APE, or "practicum") and Integrative Learning Experience (ILE) requirements for Summer-focused MPH in Clinical Effectiveness (MPH CLE) students. For the practicum, all students develop and conduct an applied analytic project that includes aspects of epidemiology, biostatistics, decision sciences, or other quantitative aspects of public health. The project must have an analytic component (i.e., it cannot be a purely descriptive project.) Each student works with a local mentor (at their host organization or home institution) as well as a Harvard faculty mentor. The practicum culminates in a final presentation about their project in EPI 947U, an on-campus seminar that students must attend during their second or third summer of the program.

All Summer-focused MPH CLE students must register for two semesters of EPI 947 in their final year of the program: EPI 947S (Full Spring) and EPI 947U (Full Summer), which are 2.5 credits each (5.0 credits total). There are no class meetings of EPI 947S during the Spring, but students will work independently on their projects (with guidance from their local and Harvard mentors) and submit several assignments, including a Learning Agreement and Analysis Plan. During the Summer, students will register for and attend EPI 947U, an on-campus daily seminar (from 1-1:50 pm ET) in which they will present the methods and results from their practicum projects, write two critiques of other students' presentations, and submit their final

Integrative Learning Experience paper. Attendance at the EPI 947U seminars during the second or third summer is mandatory.

Before registering for EPI 947, students must submit the CLE Practice Course Application (https://hsph.me/CLE-PracticeCourseApplication). Students must request permission to register for EPI 947 in my.harvard, and Dr. Baer will approve this request after reviewing the CLE Practice Course Application. If students do not know what project they are working on for the practicum, they should contact Dr. Baer directly before registering for EPI 947 (hbaer@bwh.harvard.edu).

More detailed information about the practicum can be found at this site: https://hsph.me/CLE.overview

Course Note: Student must attend the on-campus sessions of this course during their second or third summer, to present their own practicum projects and hear other students' presentations. Regular contact between students and mentors is expected during the year to seek advice, provide activity updates, and to discuss approaches to the solution of methodological issues.

Enrollment Requirements:
Course Restricted to students in the MPH summer-focused CLE program. Students must have completed the CLE Practice Course Application (https://hsph.me/CLE-PracticeCourseApplication) before registering.

Requirements: Course Restricted to students in the MPH summer focused CLE program.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |

## Subject: Interdepartmental

### Interdepartmental 239 Section: 1

Leading with History: Using the Past for New Public Health Futures (222041)

Emily Harrison

Jesse Bump

David Shumway Jones

2025 Spring (2.5 Credits) Schedule: TR 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 24

Public health problems may be urgent challenges for the present, but they have deep historical antecedents in complicated and problematic pasts. These pasts continue to matter in the present. This course empowers you to think deeply and dynamically about the complex issues that confront and often confound public health careers. Through historical exploration of five key themes, each theme framed by one big and enduring question in public health, the course demonstrates a critical apparatus for contextualizing public

health work while encouraging you to apply lessons learned, reimagine approaches, and develop new strategies for persistent problems. By providing a better sense of where public health has been and where it is, the course will build a stronger sense of shared professional identity and prepare you to lead more inclusively, with enhanced abilities to imagine different perspectives and positions. Intended primarily for master's degree candidates but open to all, the course fulfills one 2.5 credit elective.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |

## Interdepartmental 503 Section: 1

Vaccines and Vaccination (214496)

Emily Harrison

Jaap Goudsmit

Kizzmekia Corbett-Helaire

2025 Spring (2.5 Credits) Schedule: TR 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 30

Vaccines are considered one of the greatest global public health achievements, yet socially controversial across time. This course will provide students with broad knowledge and integrative skills related to the interdisciplinary topics in vaccines and vaccine programs. The course is organized around four main themes: 1) biology and applications of vaccines; 2) world-wide vaccination programs and their global health impact; 3) research, development and evaluation of vaccines; 4) surveillance and strategies for vaccination coverage. We will heavily focus on vaccines and vaccination programs that are currently in use globally, emphasizing their efficacy, effectiveness, safety and overall impact to the countries, as well as issues surrounding social acceptance and cultural environment. We use extensive case discussions and activities to interweave through these four themes with an aim of solidifying and synthesizing knowledge and skills from across disciplines involved in these topics.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

# Subject: Women, Gender & Health

## Women, Gender & Health 210 Section: 1

Women, Gender and Health: Critical Issues in Mental Health (191278)

Kristin Javaras

2025 Spring (2.5 Credits) | Schedule: MW 0800 AM - 0930 AM

Instructor Permissions: None | Enrollment Cap: 25

This course explores issues relevant to mental illness, mental health from a gender perspective. Course themes include illness constructs, life cycle and transitions, collective and individual trauma, role and relationship and embodiment. Topics include eating disorders, pain, hormonally mediated mood disorders, and PTSD. Examples highlight US and international experience. Readings are multidisciplinary, including public health and medicine, social sciences, history and literature.

Course Activities: Includes a student final project.

Course Notes:
Minimum enrollment of 5 students.

Class Notes: A course materials fee may apply for this course. An upper estimate is listed below, and the final materials fee will be communicated to enrolled students at the beginning of the term. For more information and a list of past years' materials fees for the current semester's courses, please visit the Curriculum Center website.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

# Global Health and Population

## Subject: Global Health & Population

### Global Health & Population 201 Section: 1

Advanced Modeling for Health System Analysis & Priority Setting (207842)

Stephane Verguet

2025 Spring (2.5 Credits) | Schedule: TR 0945 AM - 1115 AM

Instructor Permissions: Instructor | Enrollment Cap: 12

This course directly builds on GHP 501, and offers advanced methods for modeling for health system analysis and priority setting in global health. Students will apply a range of techniques to address central topics, including: health disparities; medical impoverishment and financial risk protection; economic evaluations for health policy assessment; health system modeling; health system performance and country performance on health.

Through readings, basic programming using R software (www.r-project.org), and research projects, students will develop their research skills around three main areas of application, with an emphasis on low- and middle-income countries:

I. Economic evaluation for health policy assessment
II. Health system modeling
III. Efficiency, equity, and performance

Course Note: GHP501 is a prerequisite. Instructor permission is required for enrollment. Students who wish to enroll must request instructor permission in my.Harvard. Please submit your petition to enroll by 5:00pm on January 17, 2025.
The petition should contain the following information: (i) an explanation of how you will benefit from taking this course, (ii) the relevance to your career path and research plans, and (iii) if you have any background in using R software.

Requirements: Prerequisite: GHP 501

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 202 Section: 1

Comparative Health Systems I (211164)

Winnie Yip

2025 Spring (2.5 Credits) Schedule: MW 0200 PM - 0330 PM

Instructor Permissions: Instructor Enrollment Cap: 59

GHP 202 is the first course in a two-course series on comparative health systems. The course will introduce students to health systems frameworks as well as essential concepts for conducting comparative health systems research. In particular, the course uses theories of the market and the government as organizing principles. This course will focus on: (i) theories of market and market failures, (ii) theories of government and government failures, and (iii) analyses of different types of health systems in advanced economies and compare their performance.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 203 Section: 1

Comparative Health Systems Part II (214479)

Winnie Yip

2025 Spring (2.5 Credits) Schedule: MW 0200 PM - 0330 PM

Instructor Permissions: Instructor Enrollment Cap: 30

GHP 203 is the second course in a two-course series on comparative health systems. While the first course (GHP 202) focuses on advanced economies, this course focuses on low- and middle-income countries (LMICs). Compared to advanced economies, LMICs are more constrained in their financing, service delivery and institutional capacities. Their populations also have different needs and demands. Through in-depth country or comparative analyses, the course examines how LMICs at different stages of socioeconomic development finance and organize the delivery of their health care systems, analyzes the roles and failures of the government and the market and the consequences on the countries' health care system performance.

Requirements: HSPH PreReq GHP 202

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| eForm Autosubmitter | Auto Submitter |

## Global Health & Population 207 Section: 1

Risk Factors and Population Health (206843)

Goodarz Danaei

2025 Spring (2.5 Credits) Schedule: TR 0200 PM - 0330 PM
F 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 30

This course covers the concepts and methods required to estimate the effect of risk factors or interventions on disease outcomes at the population level. The course will cover three major topics of estimating population exposure, determining effect sizes, and estimating the proportional and absolute effects of changes in risk factor distributions on the corresponding disease outcomes. Knowledge of introductory epidemiology and biostatistics is required. Students will work in small groups on a project during the course and will implement the analysis using real data to estimate the impact of one or more risk factors on a selected disease outcome in a population. The course uses active learning teaching methods and students are required to do in-class activities.
Prerequisites: BST 201; EPI 201 and EPI 202; or instructor permission.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | GHP SM2, PhD PHS-GHP
Wave 2 | GHP SM2, PhD PHS-GHP
Wave 3 | Open Enrollment

Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59

PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Requirements: Prerequisites: BST 201; EPI 201 and EPI 202; or instructor permission.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |

## Global Health & Population 209 Section: 1

Early Childhood Development in Global Contexts (214541)

Aisha Yousafzai

2025 Spring (5 Credits) Schedule: W 0900 AM - 1215 PM

Instructor Permissions: None Enrollment Cap: 64

Around the world, an estimated 250 million children under the age of five are failing to meet their developmental potential. Nevertheless, culturally sensitive interventions to promote early childhood development (ECD) are not widely integrated or prioritized in health and education platforms. This interdisciplinary course introduces students to core concepts in ECD, cross-cultural theory, contexts of risk and protection, and early intervention and policy. Course meetings will combine lectures, virtual interviews with global experts, and small-group discussion to equip students with the knowledge and skills to appropriately design, plan, evaluate, and appraise sensitive and specific ECD programming. In particular, the course will introduce students to foundational topics in education and public health – including theories of change, implementation research methods, and the ethics of intervention and cross-cultural work – while supporting the application of these topics to real-world interventions for young children.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |

## Global Health & Population 210B Section: 1

Concepts and Methods for Global Health and Population Studies (Part B) (222152)

Winnie Yip

2025 Spring (2.5 Credits) Schedule: F 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 12

The primary objectives of GHP 210 are to teach students: a) the frontier knowledge of a topic/subject and b) how to objectively critique existing studies and identify gaps in knowledge.
It is organized around two major themes. The first theme – family and population health – will cover the

major present and future drivers of population health globally (such as aging, urbanization, changing lifestyles, pandemics, and climate change), as well as the major burdens of diseases and their global distributions. It will further cover the important relationships between global health, human development and equitable societies. One methodological focus of this theme will be population-, community- and family-based interventions to reduce the world's largest health risks and disease burdens, boosting health literacy and fluency, motivating behavior change for health, and enhancing screening and early disease detection, as well as supporting long-term treatment and care. Another methodological focus of this theme will be a broad-scope introduction to the scientific methods of studying family and population health, including approaches to understand the drivers and contexts of health and disease, and designing and evaluating novel interventions and policies.

The second theme – health systems – will cover underlying theories and empirical evidence for analyzing different components of a health care system and how they interact with each other to determine a health system's performance. Specifically, it will cover existing health system frameworks and how they compare with each other, different financing approaches, provider payment methods, market structures, models of organization of healthcare delivery, regulation, and behavioral interventions. It will also cover ethical principles in guiding health system reform and priority setting. In addition, it will cover political economy in health reform decision and implementation. This part of the course adopts an inter-disciplinary approach, drawing on economics, political science, ethics, organizational behavior, among others.

Once students have completed this course, they will be able to (i) describe and explain the major drivers of health and disease worldwide, (ii) identify and explain major mechanisms that connect health with human, economic and social development, (iii) identify powerful interventions for population health, (iv) select the best methods to discover, design, test, and transport novel interventions and policies to boost population health. They will also be able to (v) describe and explain health systems goal and levers, (vi) compare and contrast the major approaches to funding, paying for, delivering, governing and regulating healthcare, and (vii) distinguish and critically apply alternative conceptions of equity in the context of health and health systems.

Class Notes: Grade and Credit Units Note: GHP 210 is a yearlong class comprised of two parts: Part A in the Fall and Part B in the Spring. Students only receive a grade in GHP 210 after they have completed both Part A and Part B.

At the end of the Fall term, students will receive an "IP" ("in progress") grade in GHP 210A. This is a non-credit-bearing placeholder grade that will remain on the student's transcript until they receive a final grade at the end of the Spring term. This means the 2.5 credits from GHP 210A will not be reflected in the student's transcript when the "IP" grade is present. When the Spring grades are posted, the student's final grade will replace the "IP" grade on the transcript, and the transcript will reflect the full 5 credits the student earned from GHP 210.

Students will be enrolled administratively into Part B before the Spring term begins.

Requirements: Course Restricted: SD, DPH, DRPH, PHD students only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| HSPH:Year Long Course | HSPH:Year Long Course |
| HSPH: Indpt. Study / Research | NO |
| Course Search Attributes | Display Only in Course Search |

## Global Health & Population 212 Section: 1

The Political Economy of Health in Low and Middle Income Countries (204472)

Kevin Croke

2025 Spring (2.5 Credits) Schedule: M 0530 PM - 0800 PM

Instructor Permissions: None Enrollment Cap: 25

This seminar examines how political economy influences the health outcomes and the performance of health systems, with a focus on developing countries. The course begins with a review of several key theories and concepts in political economy, focusing on the strategic interactions between politics and economics in health systems. We examine concepts such as "path dependency" to help understand why some policies and institutions are difficult to change; how political institutions like the type of regime (i.e. degree of democracy or authoritarianism) structure political participation and influence health reforms; and how variation in "state capacity" shapes the ability of countries to implement complex reforms. We show how these theories and concepts can be applied to explain past events and how by taking into account political and economic constraints, they can be used to design more successful programs and health reforms. We review different empirical methods, including quantitative/causal inference and comparative case study methods and use them to test and extend theory. Theories of policy reform are applied to cases such as health sector reform in Brazil, Turkey, Kenya and other countries based on student interests. The course involves a critical review of theories and the empirical academic literature in order to develop a political economy analysis of a health reform in a country selected by each student. The course is open to doctoral and masters students with a basic understanding of the political economy literature on health systems and interest in applied and academic research.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 228 Section: 1

Econometric Methods in Impact Evaluation (190392)

Jessica Cohen

2025 Spring (5 Credits) Schedule: F 0900 AM - 1215 PM

Instructor Permissions: Instructor Enrollment Cap: 12

The objective of this course is to provide students with a set of theoretical, econometric and reasoning skills to estimate the causal impact of one variable on another. Examples from the readings explore the causal

effect of policies, laws, programs and natural experiments. We will go beyond estimating causal effects to analyze the channels through which the causal impact was likely achieved. The course will introduce students to a variety of econometric techniques in impact evaluation and a set of reasoning skills intended to help them become both a consumer and producer of applied empirical research. Students will learn to critically analyze evaluation research and to gauge how convincing the research is in identifying a causal impact. They will use these skills to develop an evaluation plan for a topic of their own, with the aim of stimulating ideas for dissertation research. This is a methods class that relies heavily on familiarity with regression analysis and econometrics. Coursework in econometrics is a pre-requisite for the course without exception. The course is intended for doctoral students who are finishing their course work and aims to help them transition into independent research. The aim of this course is to prepare doctoral students for the dissertation phase of their research and thus they will be given priority in enrollment. The course is also open to masters students, conditional on having adequate training and the course having enough space.

Pre-Requisites: Coursework in econometrics is required and some coursework in economics is beneficial but not strictly required. Some previous experience with regression analysis and applied economic research will be a huge advantage. Students seeing applied regression analysis for the first time in this course will most likely struggle with the reading.

Course Note: Students interested in taking this course must request instructor permission either by email (cohenj@hsph.harvard.edu) or via my.Harvard. Students will be notified of their status in advance of the first class. Please include the following information in your enrollment permission request: name, academic department, degree program and year, previous courses taken in economics and econometrics, any previous experience with impact evaluation, and the reason you want to take the course.

Students outside of HSPH must request instructor permission to enroll in this course.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |

## Global Health & Population 237 Section: 1

Behavioral Economics and Global Health (190397)

Margaret McConnell

2025 Spring (2.5 Credits) Schedule: TR 0200 PM - 0330 PM

Instructor Permissions: Instructor Enrollment Cap: 20

This course provides an overview of behavioral economic theory and surveys the most recent evidence in behavioral economics applied to global health. The course will introduce students to the process of defining and diagnosing challenges in global health policy that are rooted in human behavior. They will also learn how to design solutions to these problems using principles from behavioral economics and rigorously test those solutions in applied settings.

Prerequisites: HPM206 or equivalent; GHP525 or equivalent

Course Note: Instructor permission is required

Requirements: Prerequisite: GHP525 and HPM206
Students outside of HSPH must request instructor permission to register for the course.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Classification | Even Year Class |
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

## Global Health & Population 243 Section: 1

Conducting Negotiation on the Frontlines (216357)

Claude Bruderlein

2025 Spring (2.5 Credits) Schedule: SS 0900 AM - 0400 PM
SS 0900 AM - 0400 PM

Instructor Permissions: Instructor Enrollment Cap: 34

For over a century, public health has provided a solid scientific framework to assess the causes and consequences of harmful policies and behaviors endangering the health of populations. Yet, in an increasingly divided world, public health professionals have been confronted with the growing politicization of health policy debates, including ongoing attempts to question or limit the influence of science in government policy making. These challenges have been particularly visible in crisis situations such as the response to the COVID-19 pandemic or the latest hurricanes affecting large numbers of people and communities. The same challenges have affected the design of public health programs towards vulnerable groups such as migrants, women and children in humanitarian situations across the world. To fulfill their role in these politicized environments, public health professionals must develop capabilities to lead constructive dialogues with a wide range of stakeholders while searching for realistic compromises on policy options. Such capabilities involve the ability of building trust in a tense public arena and mitigating adversarial relationships with actors opposed to the proposed policies. Engaging successfully with these counterparts is becoming a critical skill in current and future public health crises.
Through an experiential learning approach, the course will present systematic tools and methods to engage in complex negotiations in a proactive, critical, and practical manner. Based on several years of empirical research on negotiation practices on the frontlines of conflict, health crises and natural disasters, it will equip students with the practical competences and interpersonal skills required to navigate crisis negotiation as well as facilitate learning through the experience of seasoned practitioners working in these environments. Complementing existing courses on public policy and leadership, this course is designed for professionals planning to work in high-intensity environments such as pandemic, climate--induced crisis, irregular migration, armed conflicts and other critical situations.

Students can submit petitions to enroll and express interest in the Spring 2025 course here: https://airtable.com/appPe97g7mqMUxfoD/shri5ZQhyIKM4M4bV.

The meeting location for this course is in Cambridge on the HKS campus, Belfer 200.

Class Notes: Spring 2025 weekend course dates are March 29–30 and April 26–27, 2025.

The meeting location for this course is in Cambridge on the HKS campus, Belfer 200.

Requirements: HSPH: PW Degree Students

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |

## Global Health & Population 255 Section: 1

HIV Interventions: Rationale, Design, and Evaluation (190402)

Christopher Sudfeld

2025 Spring (2.5 Credits) Schedule: TR 0530 PM - 0700 PM

Instructor Permissions: None Enrollment Cap: 25

This course introduces students to the underlying theories, mechanisms and rationales for the major biological, behavioral and structural HIV prevention interventions, such as male medical circumcision, vaccination, female microbicides, treatment as prevention, counseling, and combined approaches. In addition to HIV prevention, the course covers HIV treatment, care and impact mitigation. The focus of the course will be both on developing countries and on high-risk, vulnerable and underserved populations in developed countries. Students will learn to critically analyze studies evaluating HIV interventions and to assess global and national HIV strategies.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 264 Section: 1

The Settler Colonial Determinants of Health (219616)

Bram Wispelwey

2025 Spring (2.5 Credits) Schedule: TR 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 32

Health inequities within and between societies are garnering increased attention, but some historical and structural processes are insufficiently considered despite their significant contributions. This course introduces students to the concept of settler colonialism and its health equity implications for indigenous

and settler populations. Utilizing case studies from the United States, South Africa, and Palestine/ Israel, comparative analyses in this discussion- and lecture-based seminar will elucidate universal and particular elements of settler colonial societies while drawing causal chains to their perpetual outcomes: poorer health for indigenous and other non-settler ("arrivant") communities.

This course is open to graduate students across the University and is especially salient for those aspiring to engage in public or global health, public policy, legal scholarship, advocacy and activism, human rights, or for anyone eager to explore an alternative framework for understanding the enduring structures that generate racial health inequities in multiple global contexts. Interested undergraduate students will require approval from the Instructor.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Winter Session | Winter Session |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

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## Global Health & Population 269 Section: 1

The Political Economy of Global Health (190408)

Jesse Bump

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|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | MW 0945 AM - 1115 AM |
| Instructor Permissions: | None | Enrollment Cap: | 67 |

This course presents theoretical perspectives, empirical cases and research issues in policy analysis and political economy in global health. The focus is on analytical and methodological issues. The main purpose is to examine the political economy constraints on national and global health initiatives, the role of international agencies, the impact of non-governmental organizations, and the role of the state.

Course Activities: All students will be expected to participate actively in class discussions and submit three assignments. Doctoral students in GHP must write a final paper; master's students and non-GHP doctoral students have the option to either write a final paper or complete a take-home final exam. Exams and papers will constitute 80% of the grade and class participation 20%.

Prerequisites: There are no prerequisites for this course.

Students outside of HSPH must request instructor permission to enroll in this course

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | GHP-SM2, PhD PHS-GHP, and DRPH
Wave 2 | MPH45 GH & Wave 1
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |

## Global Health & Population 292 Section: 1

Research Methods for Health System Analysis (216216)

Kevin Croke

2025 Spring (2.5 Credits) Schedule: MW 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 20

This course is designed to help students learn about methods for health system research, with a focus on low- and middle-income countries. The study of health systems differs methodologically from the study of population health in important ways. Health systems are large, complex, interactive systems. As such, the methods used for inference and analysis in population health (randomized controlled trials, and observational empirical studies that seek causal inference by seeking to approximate the RCT model) are often – although not always -- challenging or impossible to apply. Understanding variation in health system performance across countries, regions, and time therefore requires that researchers learn how to apply a range of research methods, often spanning multiple social science disciplines.
The first half of the course will introduce the methods for qualitative, comparative analysis of health systems, from research design to fieldwork. The second half of the course will focus on statistical methods, including cross-country regressions, multi-level models, and program evaluations of health system topics. The focus in these sessions will be on how valid empirical designs can be generated and implemented despite the complex nature of health systems. In both cases, the focus is both on the intellectual tools required but also the practical implementation of such research. For qualitative cross country work, this means extensive

discussion of fieldwork and qualitative research methods. For empirical work, the course includes a replication exercise to gives students direct exposure to high quality published work.
This course is likely to be especially relevant to doctoral students in the Department of Global Health and Population Health Systems Area of Specialization.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| eForm Autosubmitter | Auto Submitter |

## Global Health & Population 297 Section: 1

Field Trip: Health Reform and Community Medicine in Chile (190416)

Jaime Sapag

Thomas Bossert

2025 Spring (2.5 Credits) Schedule: MTWRF 0900 AM - 0500 PM

Instructor Permissions: Instructor Enrollment Cap: 17

Chile has been in the forefront of major new issues related to health systems and inequality. First, most Chilean observers were surprised by the massive social protests in October 2019 that challenged the view that Chile was progressing in reducing poverty and increasing equal access to health care for the poor and vulnerable populations. The protests led to a process to revise the Chilean constitution and a presidential election, which led to the election of Gabriel Boric, a young progressive, and two attempts to approve a new constitution, both of which failed in plebiscites. In parallel, three Supreme Court rulings forced the Government to propose to the Congress urgent legal adjustments to the private insurance regulation, while making new efforts to design and approve a broader health sector reform.

Second, Chile has been an innovator of health sector reforms and has been a model for several countries around the world. We will have interviews with many participants in the health system, including current and past Ministers of Health, legislators, members of professional associations, health providers in the public and private sectors, academic observers and researchers to get their views on the protests, COVID-19 situation and the broader options for health reform. We will also observe Chile's initiatives in primary care including an important public private partnership and the development of a family medicine approach to community health care.

During the course, we will interview key factors in the health system and arrange visits to clinics and hospitals to learn about:

- the origins of the protest movements and their continuing effects
- the current political issues of the Constitution and the Boric administration
- the course of the Covid-19 pandemic, its reflection of on-going inequalities, and the different strategies to control the pandemic
- their innovative health insurance system which involves both public and private insurance

- their experiment in public private partnerships for delivery of primary care (the Ancora Clinics, written up as a Harvard Business School teaching case)
- the challenges of implementing a family medicine approach in primary care clinics
- how municipal governments manage the decentralized primary care systems in urban and rural settings.
- the challenges of both public and private hospitals in Santiago
- legislative initiatives on health form in the Congress in Valparaiso

During the three weeks, students will be accompanied by Residents in Family Medicine from the Catholic University and they will have a chance to do independent or collaborative research or a practicum on topics of their own interest or in collaboration with the Chilean residents in Family Medicine.

Spanish is not a requirement since most presentations will be in English or informal translations available by Spanish speaking students and Chilean residents.

**Applications for this travel course are due September 30, 2024. More information is available: https://www.hsph.harvard.edu/winter-session-ghp-field-trips/.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 299B Section: 1

Masters Thesis (205231)

Christopher Sudfeld

Nicolas Menzies

Stephane Verguet

Aisha Yousafzai

| | | | |
|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | TBD |
| Instructor Permissions: | Instructor | Enrollment Cap: | n/a |

This is a year-long course worth a total of 5 credits (2.5 in the fall and 2.5 in the spring).
Student must produce a written thesis in accordance with the thesis guidelines developed by the department.

Course Note: Enrollment limited to GHP SM2 students only.

Grade Note: GHP 299 is a yearlong class comprised of two parts: Part A in the Fall and Part B in the Spring. For enrollment purposes and planning credit totals, students should factor 2.5 credits during Fall and 2.5 credits during Spring. Students only receive a grade in GHP 299 after they have completed both Part A and Part B. At the end of the Fall term, students will receive an "IP" ("in progress") grade in GHP 299. This is a non-credit-bearing placeholder grade that will remain on the student's transcript until they receive a final

grade at the end of the Spring term. When the Spring grades are posted, the student's final grade will replace the "IP" grade on the transcript, and the transcript will reflect the full 2.5 credits the student earned from GHP 299.

Requirements: Course Restricted: GHP SM2 students only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| Course Search Attributes | Display Only in Course Search |
| HSPH:Year Long Course | HSPH:Year Long Course |
| Full Year Course | Indivisible Course |

## Global Health & Population 300

Independent Study (190419)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: 300

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses. The program provides an opportunity to consider the design of studies, programs, or analysis of data.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Independent Study | HSPH Independent Study 300 |

## Global Health & Population 300 Section: 002

Independent Study (190419)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: 300

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses. The program provides an opportunity to consider the design of studies, programs, or analysis of data.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Independent Study | HSPH Independent Study 300 |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Global Health & Population 300 Section: 003

Independent Study (190419)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: 300

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses. The program provides an opportunity to consider the design of studies, programs, or analysis of data.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Independent Study | HSPH Independent Study 300 |

## Global Health & Population 300 Section: 004

Independent Study (190419)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: 300

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses. The program provides an opportunity to consider the design of studies, programs, or analysis of data.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Independent Study | HSPH Independent Study 300 |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Global Health & Population 350 Section: 1

Research (190420)

Rifat Atun

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

## Global Health & Population 350 Section: 10

Research (190420)

Goodarz Danaei

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 350 Section: 13

Research (190420)

Margaret Kruk

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 350 Section: 15

Research (190420)

Margaret McConnell

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |

## Global Health & Population 350 Section: 16

Research (190420)

Nicolas Menzies

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 350 Section: 17

Research (190420)

Michael Reich

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Global Health & Population 350 Section: 19

Research (190420)

Shekhar Saxena

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Global Health & Population 350 Section: 20

Research (190420)

Christopher Sudfeld

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Global Health & Population 350 Section: 21

Research (190420)

Stephane Verguet

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Global Health & Population 350 Section: 22

Research (190420)

Winnie Yip

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 350 Section: 23

Research (190420)

Aisha Yousafzai

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 350 Section: 3

Research (190420)

Sebastian Bauhoff

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 350 Section: 6

Research (190420)

David Canning

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 350 Section: 7

Research (190420)

Marcia Castro

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 350 Section: 8

Research (190420)

Jessica Cohen

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Global Health & Population 350 Section: 9

Research (190420)

Kevin Croke

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 501 Section: 1

Modeling for Health System Analysis & Priority Setting (204258)

Stephane Verguet

2025 Spring (2.5 Credits) Schedule: TR 0945 AM - 1115 AM

Instructor Permissions: Instructor Enrollment Cap: 20

This course offers an introduction to modeling for health system analysis and priority setting in global health, and its key quantitative methods. Students will learn to use a range of tools to address central concerns and topics, including: health disparities; medical impoverishment and financial risk protection; economic evaluations for health policy assessment; health system performance and country performance on health. Modeling for health system analysis – and therefore this course – draws from the disciplines of global public health, health services research, epidemiology, economics and applied mathematics. Through readings, homework, basic programming using R software (www.r-project.org), and a research assignment, students will gain solid quantitative knowledge of the field.
The course is designed around three main areas of inquiry and application, with an emphasis on low- and middle-income countries:

I. Economic evaluation for health policy assessment
II. Health system modeling
III. Efficiency, equity, and performance

Course Note: Instructor permission is required for enrollment. Students who wish to enroll must request instructor permission in my.Harvard.

Please submit your petition to enroll by 5:00pm on January 17, 2024.
The petition should contain the following information: (i) an explanation of how you will benefit from taking this course, (ii) the relevance to your career path and research plans, and (iii) if you have any background in using R software.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 504 Section: 1

Introduction to Qualitative Research for Global Health (190424)

Aisha Yousafzai

2025 Spring (2.5 Credits) Schedule: MW 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 35

This course introduces students to qualitative research design and methods applied in global health. Contrasts will be drawn with quantities and mixed-methods approaches in order to consider the place of qualitative research in global health. The course aims to provide students with an understanding of when to use qualitative research approaches, explores the philosophical debates around qualitative research and the theories that underpin qualitative research designs to consider which qualitative methodologies is appropriate for the research, and critically appraise the quality and credibility of qualitative research. This practical-oriented course will equip students with the knowledge and skills to appropriately design, plan and appraise qualitative research. The course topics will include the application of qualitative research approaches in global health, qualitative research designs, qualitative methods, ethics and critical appraisal of qualitative research.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | GHP SM2, PhD PHS-GHP, MPH45 GH
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Global Health & Population 506 Section: 1

Measuring Population Health (190426)

Nicolas Menzies

2025 Spring (2.5 Credits) Schedule: TR 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 70

This course will introduce students to the definition and measurement of population health. The primary objective is to provide an overview of the conceptual, methodological and empirical basis for quantifying levels of health in individuals and populations, including the construction of a range of different summary measures that combine information on mortality and non-fatal health outcomes. The course aims to give students an understanding of the technical basis for measurement in international work on population health; and to give students an appreciation of the uses and limitations of these methods in policy-making and priority-setting, particularly in low- and middle-income countries. Practical training will be given through homework exercises and a final exam. Students are expected to have a working knowledge of Excel or an equivalent spreadsheet package. Other packages such as Stata will be introduced during the course for those with no previous experience. Required for MS students in the department of Global Health and Population. Useful for MPH and doctoral students interested in the construction, interpretation and application of health indicators.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | GHP SM2, PhD PHS-GHP
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |

## Global Health & Population 515 Section: 1

International Humanitarian Response I (190434)

Sean Kivlehan

| | | | |
|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | W 0600 PM - 0800 PM |
| Instructor Permissions: | Instructor | Enrollment Cap: | 60 |

This course offers practical training in the complex issues and field skills needed to engage in humanitarian aid work. Students will learn the concepts and international standards for humanitarian response. While providing a solid theoretical foundation, the course will focus on practical skills such as conducting rapid assessments, ensuring field security, and interacting with aid agencies, the military, and the media during humanitarian crises. The course culminates in a required three-day intensive humanitarian crisis field simulation (GHP 518) in Spring 2.
Topics covered:

- Humanitarian response community and coordination
- International Humanitarian Law and Human Rights
- Sphere standards (shelter, water and sanitation, food security, health)
- Civil-military relations, media skills, logistics, and budgeting
- Program design, monitoring and evaluation, accountability
- Personal security, mental health, stress, and teamwork

Co-requisite: GHP 518, International Humanitarian Response II, Spring 2.

Course Notes: All students must petition for both GHP 515 and GHP 518 in my.Harvard, then request

instructor permission at https://bit.ly/IHR2025 to be considered for enrollment. There is a required course fee for GHP 518. No auditors allowed. Lectures will take place at the Harvard Chan campus in Longwood. Please review the description for GHP 518, the co-requisite Spring 2 course.

Requirements: Co-requisite: GHP 518. Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

## Global Health & Population 518 Section: 1

International Humanitarian Response II (190436)

Sean Kivlehan

2025 Spring (1.25 Credits) Schedule: FSS -

Instructor Permissions: Instructor Enrollment Cap: 60

GHP 518 is an intensive field simulation at Harold Parker State Forest in North Andover, MA. Students will camp for two nights in the forest as part of an aid agency team responding to a simulated international disaster and conflict. Student teams will carry out rapid assessments, create a comprehensive humanitarian aid plan, and manage interactions with refugees, officials, and other humanitarian actors. Students will face challenges that test their subject knowledge, team skills, creativity, and grit.
Course Fee: $300 to cover group camping gear hire, food, and other simulation costs.
Co-requisite: GHP 515, International Humanitarian Response I
Course Notes: All students must petition for both GHP 515 and GHP 518 in my.Harvard, then request instructor permission at https://bit.ly/IHR2025 to be considered for enrollment. There is a required course fee for GHP 518. No auditors allowed. Please review the description for GHP 515, the co-requisite Spring course. Simulation requires camping overnight and will take place rain-or-shine. Simulation is planned for May 2 to May 4, 2025.

Class Notes: Simulation is planned for May 2 to May 4, 2025.

Requirements: Co-requisite: GHP 515. Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |

## Global Health & Population 525 Section: 1

Econometrics for Health Policy (190440)

Nidhiya Menon

| | | | |
|---|---|---|---|
| 2025 Spring (5 Credits) | | Schedule: | TR 0800 AM - 0930 AM |
| Instructor Permissions: | None | Enrollment Cap: | 67 |

This is a course in applied econometrics for doctoral and advanced master level students. The course has two primary objectives: (1) to develop skills in linking economic behavioral models and quantitative analysis, in a way that students can use in their own research; (2) to develop students' abilities to understand and evaluate critically other peoples' econometric studies.

The course focuses on developing the theoretical basis and practical application of the most common empirical models used in health policy research. In particular, it pays special attention to a class of models identifying causal effects in observational data, including instrumental variable estimation, simultaneous equations and two-stage-least-squares, quasi-experiments and difference-in-difference method, sample selection, treatment effect models and propensity score methods.

Lectures will be complemented with computer exercises building on public domain data sets commonly used in health research. The statistical package recommended for the exercises is R.

Course Note: Students are expected to be familiar with probability theory (density and distribution functions) as well as the concepts underlying basic ordinary least square (OLS) estimation.

Course Activities: Optional review and computer lab sessions will be held.

Course Prerequisites: BST210 or BST213; or equivalent course taken at Harvard Chan or HGSE with instructor permission

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | GHP SM2, PhD PHS-GHP
Wave 2 | GHP SM2, PhD PHS-GHP
Wave 3 | Open Enrollment

Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Requirements: Prerequisite: BIO210 or BIO213. Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 530 Section: 1

Consequential Leadership In Practice (221724)

Roman Macaya

| | | | |
|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | TR 1130 AM - 0100 PM |
| Instructor Permissions: | None | Enrollment Cap: | 64 |

This course integrates the practical application of knowledge to solve public health problems from the lens of consequential leaders in global health institutions. Consequential leaders are those who exercise leadership, regardless of their positions, to achieve good outcomes within their organizations, in countries, or at the global level. The leaders we will study are not necessarily the most visible or powerful ones, but individuals and their teams in organizations, who apply the tools of the science of public health to achieve impact at scale. Using relevant materials, case examples, and engagement of practitioners, the course will explore the art and science of consequential leadership in practice. It will focus not only on the "who", "what', but also, importantly, on "how" consequential leadership is practiced. Students will develop better self-awareness as a foundational element for exercising consequential leadership. The purpose is to provide students with a path to develop a repertoire of capabilities necessary for the exercise of leadership to solve important public health problems at scale.

The intended participants in the course include MPH and DrPH students, who are emergent and future leaders in the practice of public health.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH 45 Global Health
Wave 2 | MPH 45 Global Health
Wave 3 | Open Enrollment

Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 532 Section: 1

Introduction to Global Health Care Delivery (190446)

Joseph Rhatigan

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|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | TR 0200 PM - 0330 PM |
| Instructor Permissions: | None | Enrollment Cap: | 60 |

This course will engage students in analysis of case studies that describe interventions to improve health

care delivery in resource-poor settings. Class room discussion of these case studies will help illuminate principles and frameworks for the design of efficient and effective global health interventions. Through a focus on HIV, tuberculosis, and other conditions affecting populations living in poverty, these cases will allow students to carefully consider the question of how epidemiology, pathophysiology, culture, economics, and politics inform the design of interventions.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

## Global Health & Population 534 Section: 1

Introduction to Spatial Methods for Public Health (190448)

Marcia Castro

2025 Spring (2.5 Credits) Schedule: F 0800 AM - 0930 AM
MW 0800 AM - 0930 AM

Instructor Permissions: Instructor Enrollment Cap: 20

This is an introductory level course in the conceptual and analytic tools used to understand how spatial distributions of exposure impact on processes and patterns of disease. It covers methods that allow: (i) examination of patterns of health and disease in place and time, (ii) application of geospatial technologies and methods for epidemiology, (iii) analysis of time-space relations, (iv) identification of clusters and diffusion of disease, and (v) study of geographical epidemiology of selected infectious and noninfectious diseases. Course Activities: Assigned readings must be read in advance of class. Students will help summarize and lead discussions on several papers; complete a term project. Students are highly encouraged to take one of the workshops on ArcGis offered by the Center for Geographical Analysis (CGA) - http://www.gis.harvard.edu.

Students who wish to enroll must email an essay (maximum half-page) to the course instructor (mcastro@hsph.harvard.edu) or submit directly within my.Harvard by 5:00pm on Friday, January 24, 2025. Applicants will be notified of their status in advance of Spring I add/drop deadline so students can plan accordingly. The essay should contain the following information: name, email, academic department and degree program, an explanation of how you will benefit from taking this course, the relevance to individual career path and/or research, and the dataset you have available to conduct spatial analysis.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |

## Global Health & Population 537 Section: 1

Research Methods in Humanitarian Crises (190451)

Phuong Pham

Paul Gregg Greenough

2025 Spring (2.5 Credits) Schedule: MW 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 60

The purpose of this course is to introduce students to research design and methods, analysis, and data tools and technologies applied in affected populations of complex settings such as disasters and armed conflict. The course builds participants knowledge of conceptual and methodological approaches and their applications in designing and conducting research in the context of disaster and humanitarian settings, including the evaluation of humanitarian interventions; the assessment of the needs of populations affected by sudden and slow-onset catastrophic events including complex emergencies; the emergence of inter-sectoral research, including water, sanitation, food, nutrition, shelter and protection, among others; and the significance of other disciplines such as climatology, earth sciences, urban planning and social sciences on populations at risk. Lectures for this course combine theoretical discussions with case-based didactic sessions, application exercises, relevant literature and practical examples from the field.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |

## Global Health & Population 542 Section: 1

Field Trip to Brazil (190456)

Marcia Castro

2025 Spring (2.5 Credits) Schedule: MTWRF 0900 AM - 0500 PM

Instructor Permissions: Instructor Enrollment Cap: 15

This course combines lectures, discussions, site visits (e.g., health facilities, governmental institutions, secretary of health, community-based programs, NGOs,), and group work. Five specific topics will be covered in the course: HIV/AIDS, malaria, tuberculosis, health systems, and nutrition.

Location: Manaus, the capital of the state of Amazonas. Located in the center of the largest tropical rainforest in the world, Manaus has the largest indigenous population in Brazil according to the latest 2022 census. The historical, geographical, and cultural context offers enormous potential for sustainable development initiatives, while at the same time facing low socioeconomic levels and significant structural and logistical challenges in the health system. In particular, during the COVID-19 pandemic, the region faced extreme difficulties, including a crisis of oxygen shortage in hospitals and limitations on the number of intensive care beds. Students participating in the course will have the opportunity to learn from hands-on experience about local efforts, as well as about the Brazilian Health System, public health polices, and disease burden in the country.

Speakers include professors from Harvard and Brazilian Universities, policy makers, government officials, and representatives from social movements. Harvard Students work collaboratively with Brazilian graduate students. At the end of the course, students will present and discuss their projects. Throughout this course, students will have an opportunity to interact with faculty from Harvard as well as faculty, public health workers, researchers, and students from Brazil.

**Applications for this travel course are due September 30, 2024. More information is available: https://www.hsph.harvard.edu/winter-session-ghp-field-trips/.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 543 Section: 1

Humanitarian Frontline Negotiation Lab (190457)

Claude Bruderlein

2025 Spring (2.5 Credits) Schedule: MTWRF 0900 AM - 0500 PM

Instructor Permissions: Instructor Enrollment Cap: 20

The purpose of the Frontline Negotiation Lab is to build the capacity of graduate students to navigate complex political crises in uncertain times, to develop a strategic vision on how to respond to humanitarian, social and climate emergencies, and to plan a negotiation process in adversarial conditions. Emphasizing the acquisition of planning tools and practical frameworks to engage in complex environments, this course examines a series of contexts to further a critical reflection on the design of a negotiation process on the frontline, set the basis of a professional dialogue with field practitioners, and to shed light on negotiation practices in a complex environment.

Through an experiential learning approach, the course will present a systematic methodology to engage in complex negotiations in a proactive and practical manner. It will offer a set of sensemaking frameworks to plan complex negotiation as well as facilitate learning through student's engagement with seasoned practitioners working in these environments. It will complement existing courses on public policy and leadership for those planning to work in high-intensity situations such as the current pandemic, social and political crises, climate shocks, natural disasters, armed conflicts and other critical situations.

Students can express interest in the Winter 2025 course here: https://airtable.com/appHN76nUX2sTYIoj/shrb9ljje3fQkJq7T and view the Canvas site: https://canvas.harvard.edu/courses/146466.

Class Notes: Students must request instructor permission to enroll in this course.

Class Location: HKS Littauer 150

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Global Health & Population 549 Section: 1

Field Trip to Fukushima (224857)

Aya Goto

2025 Spring (2.5 Credits) Schedule: MTWRF 0900 AM - 0500 PM

Instructor Permissions: Instructor Enrollment Cap: 15

GHP 549 introduces students to the lived experiences and "build back better" efforts to rebuild the community after a major disaster, namely the Fukushima nuclear disaster that occurred in 2011 after the Great East Japan Earthquakes. Students will be assigned to ongoing health-related issues in the community, learn and discuss the acute and long-term responses to the disaster, and present their proposed strategies for the future to local professionals. Students walk through the past and present issues and think for the future in Fukushima (which means "the island of happiness" in Japanese).

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |

## Global Health & Population 569 Section: 1

Decolonizing Global Health (218173)

Jesse Bump

2025 Spring (2.5 Credits) Schedule: M 0530 PM - 0815 PM

Instructor Permissions: Instructor Enrollment Cap: 18

Widening inequality, enduring patterns of extraction, persistent power imbalances, and ongoing marginalization stand in stark opposition with the goals of global health and standard narratives of its triumphs. The COVID-19 pandemic has brought additional awareness to racial, economic, and other inequalities within and between societies, and also has raised questions about why so much unfairness endures. This course engages and interrogates colonialism and its sequelae as major causes of current problems, aiming to define and advance a decolonization agenda. It seeks to address central weaknesses in global health's decolonization movement, particularly the limited engagement with historical scholarship and decolonization theory, which are necessary to understand the mechanisms of colonialism, and to contest its ongoing influence in global health. The course focuses mainly on the 19th and 20th centuries, placing particular emphasis on the role of public health and medicine in colonial and imperial contexts to analyze how these policy areas were shaped to serve metropolitan material and intellectual goals. Comparative case analyses will be used to illuminate the difference between decision making on health policies in colonial and

metropolitan contexts, and to connect patterns of the past with intellectual and institutional features of global health. This graduate seminar course is open to masters and doctoral students.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |

## Global Health & Population 945B Section: 1

Applied Practice Experience for Global Health (MPH45) (205233)

Peter Berman

Hailu Dhufera

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|---|---|---|---|
| 2025 Spring (1.25 Credits) | | Schedule: | T 0530 PM - 0700 PM |
| Instructor Permissions: | Instructor | Enrollment Cap: | 64 |

Section II of the two-part course for MPH45 Global Health Students.

All students completing a Master of Public Health degree must complete an Applied Practice Experience ("Practicum"). This required course is designed to meet this degree requirement. In the course, students will identify and complete a practicum that will be of value to their professional development and career goals. Students will also share their practicum experience with their MPH colleagues via a "peer-to-peer" joint learning experience.

The course emphasizes practical skills and provides opportunities to connect with professionals and communities of practice in global health. The course sessions and networking opportunities are organized around:

- The global health practice experience which is undertaken throughout the academic year and for many students, provides a focus during Winter Session. For all projects, at least 120 work hours are required.
- A poster presentation to fellow students and faculty the application of theoretical and conceptual frameworks acquired at Harvard Chan within the context of the global health practice experience, as well as a written project abstract and brief self-reflection on lessons learned.

This is a year-long course worth a total of 2.5 credits (1.25 in the fall and 1.25 in the spring).

Grade Note: GHP 945 is comprised of two parts: Part A in the Fall and Part B in the Spring. The grade and 2.5 credits are only reflected on the transcript after students have completed both Part A and Part B in the spring. At the end of the Fall term, students will receive an "IP" ("In Progress") grade in GHP 945A. When the Spring grades are posted, the student's final grade will replace the "IP" grade on the transcript, and the transcript will reflect the full 2.5 credits.

Course Requirements: Course restricted to MPH-45 GH students. This is a required course.

Requirements: MPH45 Global Health students only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Search Attributes | Display Only in Course Search |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH:Year Long Course | HSPH:Year Long Course |
| Full Year Course | Indivisible Course |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |

## Subject: Interdepartmental

### Interdepartmental 217 Section: 1

Nutrition and Global Health (190752)

Wafaie Fawzi

2025 Spring (2.5 Credits) Schedule: F 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 67

The course will cover existing and emerging problems related to nutrition and global health. We will review the epidemiological, biological, behavioral, and social causes and consequences of malnutrition, with emphasis on infectious disease and maternal and child health outcomes. We will also review emerging problems related to the coexistence of over and under nutrition (double burden) present in many countries. Many of the readings will address the latest evidence on the efficacy of nutrition interventions, as this knowledge is a pre-requisite to planning sound programs. Practical aspects related to programs, including nutrition assessment, types of study design, and other aspects of monitoring and evaluation will also be presented and discussed in class.

At the end of the course students will be able to:

· Describe the different forms of malnutrition and their causes and consequences
· Understand how to assess and measure the nutritional status of populations based on dietary, anthropometric, biochemical and clinical measurements.
· Critically review the literature on the role of nutritional factors on health outcomes, and identify strengths and weaknesses of studies on global nutrition.
· Discuss the latest findings from epidemiologic studies on the role of nutrition in the prevention, care, and treatment of key infectious and maternal and child health outcomes.
· Integrate nutritional research findings into field programs; consider practical issues related to program design and implementation, and design an implementation research plan on a current topic related to nutrition and global health.
· Communicate research findings related to nutrition and health with leaders and policymakers in global contexts.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

# HSPH Interdepartmental

## Subject: Molecular Metabolism

### Molecular Metabolism 250 Section: 1

Advanced Topics in Molecular Metabolism (218530)

Nora Kory

2025 Spring (2.5 Credits) Schedule: F 0200 PM - 0330 PM
T 0200 PM - 0330 PM

Instructor Permissions: Instructor Enrollment Cap: 15

A quarter course focused on developing skills for critical reading of primary research literature in fields related to molecular metabolism. The course is geared toward PhD students in the life sciences with interest in the role of metabolism in physiology and disease, including those in BPH and other HILS PhD programs. Students will be required to read one research paper prior to each class and complete a paper review. Class time will involve short lectures/discussions on the background and technical aspects of the given study and detailed review of the published work, with each student describing an experiment or set of experiments, the results, and authors' interpretation, along with caveats and alternative explanations.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

### Molecular Metabolism 300

Independent Study (190382)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to

your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Independent Study | HSPH Independent Study 300 |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Molecular Metabolism 300 Section: 002

Independent Study (190382)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Independent Study | HSPH Independent Study 300 |

## Molecular Metabolism 300 Section: 003

Independent Study (190382)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of

faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Independent Study | HSPH Independent Study 300 |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Molecular Metabolism 300 Section: 004

Independent Study (190382)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Independent Study | HSPH Independent Study 300 |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

# Subject: Interdepartmental

## Interdepartmental 218 Section: 1

Financial Transactions and Analysis (223089)

Bonnie Blanchfield

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 45

This intensive course introduces concepts of financial accounting to the non-accountant user of financial information. Basic accounting transactions, statement preparation, concepts of accrual vs. cash accounting, and nonprofit healthcare accounting are presented in the first half of the course. The first half of the course should illustrate that recording accounting transactions can be an art as well as a science. The second half of the course focuses on financial statement analysis and assessing financial health. This course includes prework that should be completed before the start of the course.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH-GEN Students
Wave 2 | MPH-GEN and MPH-EPI students
Wave 3 | MPH-GEN, MPH-EPI, and approved petitioners

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Requirements: See Class Notes for details. MPH-GEN and MPH-EPI students do not need to petition to enroll. Other students may petition.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Interdepartmental 226 Section: 1

Interventions for Global Health: Concepts and Methods (224897)

Till Baernighausen

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 20

This course is intended as an introduction to global health research. Its particular focus will be on the

science of change – how we can use science to support the creation and evaluation intervention and policies aimed at boosting population health. The course will consist of both a domain and methods theme. The domain theme will focus on major cases in global health research, covering both the micro level (interventions) and the macro level (policies). Case studies from both resource-poor and research-rich communities will illustrate interventions and policies to address major disease needs and major drivers of population health. The methods theme of the course will follow a methods framework designed for this course. It will feature key methods that are useful for (i) establishing the need for population health interventions; (ii) designing novel interventions; and (iii) evaluating intervention impact, performance, economic value, and equity. The methods training will focus on conceptual understanding, as well as potential applications, strengths and weakness of methods that are useful for creating and evaluating population health interventions. The course will thus focus both on understanding future developments in population health and the contributions that real-life intervention research can make to addressing major health needs in communities worldwide. It will provide students with a comprehensive conceptual and applied toolkit to envision and design studies to create and design a population health intervention.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH-GEN Students
Wave 2 | MPH-GEN and MPH-EPI students
Wave 3 | MPH-GEN, MPH-EPI, and approved petitioners

Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

MPH-GEN and MPH-EPI students do not need to petition to enroll. Other students may petition.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |

## Interdepartmental 232 Section: 1

Communication Strategies and Tactics for Public Health Advocates (225901)

Andy Burness
Amanda Yarnell

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 20

Health policy experts and system reformers – including government officials, health care leaders, civil servants, lobbyists, think tank scholars, and NGO leaders and advocates – must have skills to move ideas to scale and drive needed changes for healthier communities. They (and you) have the power to be accelerants on the fire of change, to move ideas from the conceptual to action. This course will help you build the strategic communications skills required to do so.

Wherever you end up next, you will have to convince policy makers, funders, partners, media, or boards of the value of your ideas. That means strategic communications is not a luxury or even a sidelight. It is core to success on all fronts.

Over sixteen weeks, you will have an opportunity to develop the pieces of a strategic communication plan required to advocate for a specific programmatic or policy reform of your choice: a "message deck" to guide all communications, a landscape analysis of misinformation you might need to overcome, a pitch letter making your case, an op-ed piece suitable for publication; and a plan for telling and spreading your story via traditional and social media.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH-GEN Students
Wave 2 | MPH-GEN and MPH-EPI students
Wave 3 | MPH-GEN, MPH-EPI, and approved petitioners

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Course Requirements: See Class Notes for details. MPH-GEN and MPH-EPI students do not need to petition to enroll. Other students may petition.

Requirements: Students enrolled in the MPH-EPI and MPH-GEN programs have priority enrollment in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Course Category | Category 4: Elective |

## Interdepartmental 247 Section: 1

Native Americans in the 21st Century: Nation Building I (225727)

Joseph Kalt

Angela Riley

2025 Spring (2.5 Credits) Schedule: MTWRF 1000 AM - 0430 PM

Instructor Permissions: None Enrollment Cap: 15

This course examines the challenges that contemporary American Indian nations face as they endeavor to rebuild their communities, strengthen their cultures, and support their citizens. The range of issues that Native leaders and policymakers confront is wide and encompasses political sovereignty, economic development, constitutional reform, cultural promotion, land and water rights, religious freedom, health and social welfare, and education. Because the challenges are broad and comprehensive, the course emphasizes the interdisciplinary nature of current Native nation building. Research finds that effective nation building must be compatible with individual societies' cultures. Yet, American Indian tribes are culturally heterogeneous. Hence, there is not "one size" that fits all. Case studies and simulations derived from field research and experience are utilized to engage students in the multidimensional settings that confront Native societies. Scholars and leaders from the Harvard University Native America Program provide selected presentations. Prominent Indigenous leaders address the class daily, giving their perspectives on the choices and constraints they confront in their nation building efforts.

Class Notes: Class Meeting Location: Littauer Building 140

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Interdepartmental 248 Section: 1

Native Americans in the 21st Century: Nation Building II (225728)

Eric Henson

2025 Spring (5 Credits) Schedule: T 0430 PM - 0630 PM

Instructor Permissions: None Enrollment Cap: 16

This community based research course focuses on some of the major issues Native American Indian tribes and nations face in the 21st century. It provides in-depth, hands-on exposure to native development issues, including: sovereignty, economic development, constitutional reform, leadership, health and social welfare, tribal finances, land and water rights, culture and language, religious freedom, and education. In particular, the course emphasizes problem definition, client relationships, and designing and completing a research project for a tribe, tribal department, or those active in Indian Country. The course is devoted primarily to preparation and presentation of a comprehensive research paper based on work with a tribal community. In addition to faculty presentations on topics such as field research methods and problem definition, students will make presentations on their work in progress and ultimate findings.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |

## Interdepartmental 252 Section: 1

Ethical Basis of the Practice of Public Health (219668)

Susannah Rose

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 60

This course is intended to provide students with an understanding of the major ethical issues confronting health care delivery and public health practice. This course will provide familiarity with some of the fundamental ethical theories that have shaped our thinking about key public health issues. We will engage in lively virtual discussions on challenging issues such as: mandatory vaccinations, paternalistic public health policies, rationing of health care resources, the use of quarantine, genetic screening, and access and "rights" to health care. Students will learn to analyze complex ethical problems, and to apply philosophical theories to produce well-reasoned policy recommendations.

Class Notes: This course is only open to MPH-GEN students.

Requirements: Course Restricted: Course open to MPH-GEN students only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| eForm Autosubmitter | Auto Submitter |

## Interdepartmental 255 Section: 1

Public Health Leadership: Personal Mastery (220456)

Perry Dougherty

2025 Spring (1.25 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 30

Public Health Leadership: Personal Mastery is intended to provide students with opportunities to grow as leaders. The content of the course is informed by a deep understanding of reflective awareness practices as well as core leadership development theories from adult development, emergent strategy, authentic leadership, adaptive leadership, and teaming. Leadership development often requires the nimble ability to expand or shift one's perceptions of oneself, others, and the world at large. In this course, you will develop an understanding of yourself as a leader; discern your values and purpose as you understand it today; reflect upon your strengths, preferences, growth edges, and limitations; practice skills of listening, dialogue, and connection that often support leaders in working with others; learn practical ways of becoming aware of, accepting, and changing old habits and patterns that do not serve you anymore or that do not serve you in every context; and learn the value of candid feedback and reflection processes.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups

Wave 1 | MPH-GEN
Wave 2 | MPH-GEN & MPH-EPI
Wave 3 | MPH-GEN, MPH-EPI, and approved petitioners

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts).
MPH-GEN and MPH-EPI students do not need to petition to enroll. Other students may petition, with students in summer-focused and summer-only programs receiving priority for petition approval.

Requirements: See Class Notes for details. MPH-GEN and MPH-EPI students do not need to petition to enroll. Other students may petition.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |

## Interdepartmental 256 Section: 1

Evaluating Today's Complex Public Health Initiatives (220457)

Tamara Calise

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 60

Evaluation is one of the 10 essential public health functions, one of the seven core competencies of health education, and is critical to effective practice. This course uses the CDC Evaluation Framework, a specific public health evaluation framework, to explore several dimensions of evaluation. Topics will introduce students to general purposes and uses of program evaluation; the theory of program and policy evaluation and the methods and techniques used in the broad field of public health; ways program logic models are used to illustrate a program's "road map," goals, and objectives; ways to interpret and disseminate evaluation findings; and criteria and standards for assuring a program evaluation is sound and accountable.

Students will develop comprehensive understanding of the phases of program evaluation, with an emphasis on community-based programs, comprehensive initiatives, and systems approaches. The course is designed to guide students in thinking critically about how health initiatives work, and, how evaluators can make them work better using various approaches. To achieve this goal, I will expose students to readings and resources, discussions about terminology and concepts, and provide feedback on assignments and opportunities for hands-on practice.

Requirements: Course Restricted: Course open to MPH-GEN students only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Interdepartmental 273 Section: 1

Innovation and Entrepreneurship in Health Care (221626)

Richard Siegrist

Adele Houghton

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 40

The Innovation and Entrepreneurship in Health Care course will expose you to the theory and practice of innovation and entrepreneurship in health care settings, both domestically and abroad. The course is divided into two components: case analysis and a team venture group assignment. Each week, students will analyze a case highlighting an innovative healthcare organization, whether for-profit, non-profit, or a governmental organization. The second component of each week will involve working with a group of other students in applying the concepts in the case analysis to developing a venture that tackles a major health care or public health challenge.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Priority Wave Groups
Wave 1 | MPH-GEN Students
Wave 2 | MPH-GEN and MPH-EPI Students
Wave 3 | MPH-GEN, MPH-EPI, and Approved Petitioners

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: This course is for MPH GEN & MPH EPI students.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |

## Interdepartmental 275 Section: 1

MPH Generalist Integrative Learning Experience (222040)

Monica Rivera Bueno

Daniela Lewy

2025 Spring (1.25 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 65

This course is required for all students in the MPH Generalist program as part of the program's culminating experience requirement. The course is designed to provide you with practical and applied knowledge of understanding, diagnosing, evaluating, and positively impacting policy or programs.

Requirements: Course Restricted: Course open to MPH-GEN students only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |

## Interdepartmental 276 Section: 1

Introduction to Nutrition Science (222092)

Shilpa Bhupathiraju

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 30

What are nutrients? How does the human body absorb and utilize nutrients? How is nutrition relevant to certain chronic diseases? What nutrients are linked to malnutrition in the United States and globally? What are the principles of a healthy dietary pattern? This foundational nutrition science course answers these and other nutrition-related questions. Topics covered in the course include digestion and absorption of nutrients; macronutrients (carbohydrates, protein, and fats); micronutrients (water-soluble and fat-soluble vitamins, minerals); macronutrient metabolism; water and electrolytes; global nutrition and chronic disease and nutrition; and understanding different study designs utilized in nutritional research. Students will practice critically evaluating nutrition information and research.

Students are required to attend a limited number of online, live sessions over the course of the semester.

Class Notes:

Priority Wave Groups
Wave 1 | MPH-GEN
Wave 2 | MPH-GEN and MPH-EPI
Wave 3 | MPH-GEN, MPH-EPI, and approved petitioners

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

MPH-GEN and MPH-EPI students do not need to petition to enroll. Other students may petition, with students in summer-focused and summer-only programs receiving priority for petition approval.

Requirements: See Class Notes for details. MPH-GEN and MPH-EPI students do not need to petition to enroll. Other students may petition.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Interdepartmental 290 Section: 1

Emergency Response, Disasters, and Public Health (219670)

William Vanderwagen

Paul Venton

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 60

The purpose of this course is to provide cognitive and heuristic tools to public health practitioners to be well prepared to plan for, respond to, recover from, and mitigate the impact of health disasters precipitated by a variety of threats. The course will provide learners with an awareness of the wide-ranging collaborative processes necessary among public health and medical service providers, as well as cross sectoral dependencies on others such as energy, transportation, public safety, etc. Upon completion of this course, the learner will understand and be able to utilize tools and processes to save lives, reduce the burden of suffering, and speed communities to recovery in the face of disasters.

Class Notes: This course is only open to MPH-GEN students.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |

## Interdepartmental 523 Section: 1

Investigating Outbreaks (224140)

Kayla Laserson

Samir Sodha

2025 Spring (1.25 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 40

The investigation of disease outbreaks both predates and gave birth to the fields of epidemiology and public health. In the modern day, tried and true epidemiologic methods persist along with new, sophisticated methods of discovery. The topic of outbreaks is also the fodder of movies and television with fictional characters playing the glamorous role of "disease detectives" solving "ripped from the headlines" situations. This course is "grounded in the evidence-base" and draws from the literature and our own field-based experience.

This course combines the fundamental epidemiologic skills that you have gained throughout your program and applies them to the investigation of an outbreak. Mastery of the knowledge and skills in this area will foster the use of problem-solving frameworks and implementation strategies needed to address future outbreak situations that you may face in your career. The course will require you to follow along with an outbreak investigation case example, and the real-time experience of attempting to address these scenarios will illustrate the complexities and unexpected nature of outbreak investigations.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH-GEN and MPH-EPI
Wave 2 | MPH-GEN, MPH-EPI, and approved petitioners
Wave 3 | MPH-GEN, MPH-EPI, and approved petitioners

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)
MPH-GEN and MPH-EPI students do not need to petition to enroll. Other students may petition, with students in summer-focused and summer-only programs receiving priority for petition approval.

Requirements: Pre-requisites: (ID 201) OR (BST 206 & BST 207 & EPI 208) OR (ID 207 & ID 208)

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Interdepartmental 529 Section: 1

Data Management and Analytic Workflows in R (221627)

Jarvis Chen

2025 Spring (2.5 Credits) Schedule: MTWRF 0130 PM - 0530 PM

Instructor Permissions: None Enrollment Cap: 60

Data Management and Analytic Workflows in R will introduce students to R programming and modern data management and analysis workflows applied to examples from population health science. Throughout, we will emphasize reproducibility, open science, data visualization, and dynamic document generation. Specific skills learned will include the use of the RStudio integrated development environment, tidy data management practices/workflows, how to get help in programming, and how to use GitHub to track changes in code, disseminate professional work, and integrate feedback. Coursework will consist of lectures, in-class group work, homework, peer assessment, and time for discussion. This course complements graduate-level courses in statistics and quantitative research methods by helping students develop practical skills for conducting independent research incorporating modern data science principles. Students completing this course will have a solid foundation enabling them to handle complex data management tasks and data communication skills for research and professional work.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | PhD-PHS
Wave 2 | MPH-65, DrPH, SM2
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 11/14/2024 11:00 AM - 11/24/2024 11:59 PM
Wave 2 | 11/25/2024 11:00 AM - 11/27/2024 11:59 PM
Wave 3 | 11/28/2024 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |

## Interdepartmental 562 Section: 1

Narrative Leadership - Using Storytelling to Mobilize Collective Action in Public Health (219662)

Predrag Stojicic

| | | | |
|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | TBD |
| Instructor Permissions: | None | Enrollment Cap: | 65 |

From global pandemics, chronic diseases, and racial inequities, public health leaders at the local, national, and global levels are facing some of the most complex and interconnected problems of modern times. However, despite our ability to produce evidence-based solutions that could improve health and well-being, their adoption is flagged due to the lack of collective action.

In this course, we will introduce the practice of leadership called Public Narrative that is rooted in community organizing and social movements. Developed by community organizer and Harvard professor Marshall Ganz, Public Narrative provides a way of thinking through the stories that mobilize people for collective action.

The goal of this course is to strengthen students' capacity to lead. We recognize that effective leaders cannot just engage the head (evidence and data). We need to learn how to engage the heart (values and emotions) in order to translate the knowledge into the community, political, or economic power necessary for long-term change.

Whether leading one person or thousands, engaging the heart requires learning the practice of storytelling and narrative that enables the leader to identify important issues, communicate those issues, and imaginatively live them out in professional and public life.

Narrative Leadership course is designed for public health leaders who are interested in harnessing the power of storytelling to motivate others to join them in action.

Class Notes: This course is only open to MPH-GEN students.

Requirements: Course Restricted: Course open to MPH-GEN students only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Interdepartmental 946A Section: 1

Applied Practice Experience for MPH Generalist (220812)

David Matheson

William Bean

Monica Rivera Bueno

2025 Spring (1.25 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 60

All students completing a Master of Public Health degree in accredited schools of public health in the US must complete an Applied Practice Experience ("Practicum"). This required course is designed to provide some tools and insights that will be useful in future professional practice; assist MPH Generalist students in identifying and completing a practicum experience that will be of value to their professional development; share that experience with their MPH Generalist colleagues via a "peer-to-peer" joint learning experience.

This is a year-long course worth a total of 2.5 credits (1.25 in the spring of the first academic year and 1.25 in the fall of the second academic year).

Grade Note: ID 946 is comprised of two parts: Part A in the Spring of the first year and Part B in the Fall of the second year. The grade and 2.5 credits are only reflected on the transcript after students have completed both Part A and Part B in the Fall. At the end of the Spring term, students will receive an "IP" ("In Progress") grade in ID 946A. When the Fall grades are posted, the student's final grade will replace the "IP" grade on the transcript, and the transcript will reflect the full 2.5 credits.

Course Requirements: Course restricted to MPH-GEN students. This is a required course.

Requirements: Course Restricted: Course open to MPH-GEN students only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH:Year Long Course | HSPH:Year Long Course |

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |

## Subject: Women, Gender & Health

### Women, Gender & Health 300

Independent Study (191282)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Independent Study | HSPH Independent Study 300 |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

### Women, Gender & Health 300 Section: 002

Independent Study (191282)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| HSPH: Independent Study | HSPH Independent Study 300 |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Women, Gender & Health 300 Section: 003

Independent Study (191282)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Independent Study | HSPH Independent Study 300 |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Women, Gender & Health 300 Section: 004

Independent Study (191282)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Independent Study | HSPH Independent Study 300 |
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

# Health Policy and Management

## Subject: Health Policy & Management

### Health Policy & Management 213 Section: 1

Public Health Law (190531)

Ameet Sarpatwari

2025 Spring (2.5 Credits) Schedule: R 0530 PM - 0820 PM

Instructor Permissions: None Enrollment Cap: 50

The course is designed to provide students with an overview of what public health law is; why it matters to public health practitioners and providers; and how the law can be used to change health outcomes. Among the questions explored are:

1. What authority does the government have to regulate in the interest of public health?

2. How are individual rights balanced against this authority?

3. How can criminal statutes, civil litigation, and patent law be used to promote or negatively affect public health?

The course investigates these issues as they operate a range of specific contexts in public health and medical care, including communicable disease prevention and control, insurance coverage, mental and reproductive health care, pharmaceutical marketing, and tobacco cessation and lead abatement. The course touches on constitutional law, criminal law, tort law, and intellectual property law. Instruction is through interactive lectures with significant amount of class discussion. Most classes will revolve around two to three legal cases.

Course Note: No previous background in law is needed.

Registration Note: Priority is given to MPH45-HP students

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH 45 & 65 HP
Wave 2 | MPH 45 & 65 HP, MPH 45 & 65 HM, HPM SM1, PHS NUT
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Health Policy & Management 222 Section: 1

Financial Management of Health Care Organizations (190540)

Andrew Cavanna

Joshua Nelson

2025 Spring (2.5 Credits) Schedule: F 0945 AM - 0100 PM
F -
F -

Instructor Permissions: None Enrollment Cap: 37

This course introduces the fundamentals of modern financial analysis that are essential to anyone working in healthcare finance, strategy, consulting, or entrepreneurship. Although most of the concepts and practices discussed are applicable to all industries, we will focus on the perspective of healthcare organizations focusing mostly on provider organizations, but also delving into pharmaceutical, medical device, and insurance companies. The course is organized around three themes: (i) valuing a project or an organization, (ii) raising capital, and (iii) strategic organizational growth and mission stability, especially in times of turbulence. Students will apply knowledge through real-life scenarios they are likely to encounter in the first year "on the job" such as: business case analysis for a new project or company, M&A due diligence, and organizational financial performance analysis.
This class builds on courses in financial accounting and managerial accounting by teaching key concepts and practices related to the financial management of healthcare organizations. Essentially, this is a "corporate finance" course tailored to the particular needs and dynamics of the health care sector. At its core, financial management requires an understanding of the value of assets, the cost of capital, and the relationship between risk and return.

Registration Note: Restricted to MPH-HM 45 and MPH-HM 65 students. Non MPH-HM students will require instructor approval.

Requirements: Restriction: MPH-45 HM or MPH-65 HM

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |

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## Health Policy & Management 223 Section: 01

Public Speaking for Managers (190541)

Jack Rossin

2025 Spring (1.25 Credits) Schedule: T 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 15

This course gives the student the opportunity to develop skills in oral communication. Emphasis is placed on the techniques most useful to managers. Students will receive feedback in a supportive classroom environment.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH45 HM, MPH 65 HM, MPH45 HP, MPH65 HP, HPM SM1
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing

Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM

Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM

Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Course Restricted to HPM students (or instructor permission).

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |

## Health Policy & Management 231 Section: 1

Healthcare Organizations and Strategy (190549)

Andrew Shin

2025 Spring (2.5 Credits) Schedule: MW 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 50

Successful organizations are led by people capable of managing decisions with important tradeoffs and implications for long-term viability. Using selected readings and case studies of healthcare organizations, students will be able to think critically about real-life, classical examples of organizations dealing with strategic decision point dilemmas. We will focus on strategy as a way of thinking about organizational challenges and potential solutions, using tools such as environmental analysis, internal analysis, ethical decision-making, and organizational design and strategy implementation. Since this course emphasizes foundational theories and concepts in strategy, it is intended for those with no/limited strategy exposure.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH65 HM, MPH45 HM
Wave 2 | MPH65 HP, MPH 45 HP, HPM-SM1 & Wave 1
Wave 3 | Open Enrollment

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Priority Wave Timing

Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Indpt. Study / Research | NO |

## Health Policy & Management 245 Section: 1

Meta-Leadership: Preparing to Lead in Public Health and Health Care (190563)

Leonard Marcus

Eric McNulty

2025 Spring (2.5 Credits) Schedule: MTWRF 0830 AM - 0500 PM

Instructor Permissions: None Enrollment Cap: 48

Like many T.H. Chan School graduates, you may one day find yourself in a significant public health or health care leadership position. The time to start building your skills is now. The field is facing unprecedented change. The COVID-19 pandemic underlined the importance of crisis.
You will learn pragmatic skills and foundational concepts for becoming an effective leader. This course provides a focus and framework to integrate your overall HSPH experience into your leadership trajectory. The week builds upon the concepts and practices of "meta-leadership," widely used for leading and problem solving in complex situations. The topics range from developing a better understanding for who you are as leader -- your strengths and weaknesses -- as well as techniques for developing your leadership vision, forging crucial relationships, and achieving tangible progress. You will find that you are better oriented to and capable of generating connectivity of effort among people and organizations to advance critical public health priorities. You will explore and develop your leadership passion and ways to advance population health, equity, and well-being.
The class has an active learning laboratory format, including a combination of lecture, discussion, role play exercises with on-the-spot presentations and feedback by instructors and fellow students. It will draw on

relevant recent and current events. Over the course of this engaging experience, you will be participating in a robust learning community, building meaningful relationships that will endure well beyond the class. The text for the course, You're It: Crisis, Change and How to Lead When It Matters Most, is co-authored by the instructors. The book and classes prepare you to assume meaningful leadership roles and to advance significant change – to make a positive difference - on critical public health issues and challenges.

Class Notes: A course materials fee may apply for this course. An upper estimate is listed below, and the final materials fee will be communicated to enrolled students at the beginning of the term. For more information and a list of past years' materials fees for the current semester's courses, please visit the Curriculum Center website.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |

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## Health Policy & Management 247 Section: 1

Political Analysis and Strategy for U.S. Health Policy (190565)

Adrianna McIntyre

2025 Spring (2.5 Credits) Schedule: MW 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 70

Health policy making in the U.S. has a strong political dimension. This course offers analytical insights into understanding U.S. health policymaking and developing political strategies that influence health policy outcomes. The course provides strategic skills for those in future leadership roles to influence the health policy process. Major topics to be covered include analyzing how health policy is shaped by interest groups, media, public opinion, legislative lobbying, elections, coalition building, policy legacies, institutions, and the politics of information. Student-led case studies focus on the politics of health policies in the U.S., including the Covid-19 pandemic, the debate over the expansion of Medicaid, and abortion policy.

Course note: This course is not open to auditors.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH45 HP, MPH65 HP, DRPH, HPM SM1, PhD - Health Policy
Wave 2 | Wave 1 + MPH45 HM, MPH65 HM
Wave 3 | Open Enrollment

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Priority Wave Timing

Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |

## Health Policy & Management 252 Section: 1

Negotiation (190570)

Linda Kaboolian

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|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | TR 1130 AM - 0100 PM |
| Instructor Permissions: | None | Enrollment Cap: | 78 |

The ability to negotiate successfully rests on a combination of analytic and interpersonal skills. Negotiators must execute promising strategies based on their analysis of the multitude of factors that affect the negotiation and that structure the definition of a successful outcome.

Among these issues are the context and the structure of the negotiation, the interests of the other parties, the opportunities and barriers to creating and claiming value on a sustainable basis, and the range of possible moves and countermoves both at and away from the bargaining table, the value of the relationships, personal goals and ethical considerations.

Interpersonal skills are important because negotiations are interactions with counterparts. Effective negotiators influence the behavior of other parties, correctly read the actions, intentions and preferences of counterparts, communicate their own perspectives and intentions well, and are aware of and can correct for their own cognitive and emotional biases. Strong interpersonal skills make it possible to execute one's own strategy and react to moves by counterparts effectively.

This course will present conceptual frameworks that will help you analyze negotiations in general and prepare more comprehensively for future negotiations in which you may be involved. In class analysis of case studies and readings from applied game theory, social psychology, political theory, and behavioral economics, we will draw out lessons from ongoing, real-world negotiations. Through participation in

negotiation simulations, you will have the opportunity to exercise your powers of communication and persuasion, and to experiment with a variety of negotiating strategies and tactics. The simulation exercises draw from a wide variety of contexts and their aim is to illustrate concepts and tools that apply to a variety of negotiations settings. In-class debriefs of your experience as well as your outcomes will help you make adjustments to your negotiating practice that better reflect your intentions and preferences.

I hope that in addition to developing a better understanding of strategy, you will learn a great deal about yourself in this course. You will have repeated exposure to situations that involve a shifting mix of opportunities for cooperation and competition as well as important ethical choices. The main pedagogical perspective is to improve your own repertoire of action practice and by reflecting on your practice. As a result, your negotiating effectiveness should increase significantly. Overall, I expect that you will finish the course as an analytically savvy, flexible, efficacious negotiator.

Registration Note: Students are required to attend class from the beginning of the term. The course begins with an in-class exercise. Throughout the semester exceptions are made for professional responsibilities, illness, and family matters.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | All DrPH Students
Wave 2 | All DrPH and All HPM Students
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |

## Health Policy & Management 255 Section: 01

Payment Systems in Healthcare (190573)

Jean Yang

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|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | MW 1130 AM - 0100 PM |
| Instructor Permissions: | None | Enrollment Cap: | 60 |

The admonition "Follow the money" is good advice to anyone seeking a deeper understanding of any health care system. Money is a major tool for shaping the delivery of health care, for both good and ill. This course will follow the money as it flows through provider payment systems, and examine the effects of these flows on those who give, receive and pay for health care. Topics will include current payment methods for hospital care and physicians as well as innovative payment strategies and models under development. Cross-national examples will be used occasionally to gain greater understanding of some of the challenges that face all health care systems in designing successful provider payment systems. Guest speakers will provide a first-hand perspective on selected topics.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH45 HM, MPH65 HM, MPH45 HP, MPH65 HP, HPM SM1
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| eForm Autosubmitter | Auto Submitter |

## Health Policy & Management 278 Section: 1

Skills and Methods of Health Care and Public Health Negotiation & Conflict Resolution (190593)

Leonard Marcus

Eric McNulty

2025 Spring (2.5 Credits) Schedule: TR 0800 AM - 0930 AM

Instructor Permissions: None Enrollment Cap: 64

Negotiation is an essential everyday activity for those who lead, develop policy, initiate programmatic innovations, conduct research in public health and health care, and provide clinical care. Your ability to negotiate and resolve conflict is critical to getting your job done, advancing in your career, and achieving your organizational mission.

This course introduces you to the theories, tools, and pragmatic methods of interest-based negotiation and conflict resolution. Emphasis is placed on integrating analytic skills, negotiation techniques, and conflict resolution methods into the work you will do over your career – and even in your personal life. The text for the course, co-authored by the instructors, is Renegotiating Health Care: Resolving Conflict to Build Collaboration, Second Edition.

Using real-world examples of conflict and negotiation drawn from public health and health care, you will learn how to apply the concepts and methods of "The Walk in the Woods," a four-step process of interest-based negotiation. Many of the class sessions feature role play and simulation exercises in which negotiation concepts and methods come to life. The debriefing which follows each exercise offers you individual feedback, as well as the opportunity to examine applied methods of organizational communication, system design, and conflict. We also discuss how to effectively negotiate salary and compensation/benefit packages.

By the end of the course, you will have knowledge of the overt and covert causes of conflict, concepts for analyzing disputes and a variety of methods that you can use to creatively prevent, resolve and when necessary, constructively raise conflict.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH45 HM, MPH65 HM, MPH45 HP, MPH65 HP, HPM SM1
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies

by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 4: Elective |

## Health Policy & Management 285 Section: 1

Applied Survey Research for Health Policy and Management (212547)

Gillian SteelFisher

2025 Spring (2.5 Credits) Schedule: MW 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 20

Surveys are an essential tool in health policy and management, where it is critical to understand the perspective of patients, physicians and other care providers, as well as the broader public. Surveys are utilized to inform policy and program management design, to track changes over time, and to evaluate policy and program impact.

This course focuses on helping students interested in health policy and management to learn central skills in survey study design, questionnaire development as well as interpretation and analysis. The course will cover multiple modes, including telephone, internet, text, mail and face-to-face surveys. The course welcomes students interested in both domestic and international health policy issues, and will cover methodologies suitable to environments with variable research infrastructure. The course will focus on applied techniques specific to survey development, management and interpretation rather than statistical information related to sampling and analysis of survey data, which is available in other courses. Students will get hands-on experience in questionnaire design and interpretation, as well as the opportunity to develop their own survey-based projects.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |

## Health Policy & Management 300

Independent Study (190611)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Independent Study | HSPH Independent Study 300 |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Health Policy & Management 300 Section: 002

Independent Study (190611)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| HSPH: Independent Study | HSPH Independent Study 300 |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Health Policy & Management 300 Section: 003

Independent Study (190611)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Independent Study | HSPH Independent Study 300 |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |

## Health Policy & Management 300 Section: 004

Independent Study (190611)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to

your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Independent Study | HSPH Independent Study 300 |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Health Policy & Management 503 Section: 1

Understanding Public Health Leadership: From Frameworks to Practice (206904)

Howard Koh

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|---|---|---|---|
| 2025 Spring (1.25 Credits) | | Schedule: | TWRF 0130 PM - 0500 PM |
| Instructor Permissions: | Instructor | Enrollment Cap: | 28 |

Understanding public health leadership should represent a dynamic, lifelong process. Among other things, it can involve discovering and applying theories and frameworks, learning from proven and effective real-world leaders, analyzing strategies and skills such leaders have employed, and engaging in personal reflection. Of note, theory and science alone are never enough to enable change; effective practitioners must also constantly hone and refine skills. Strategies include improving systems thinking, generating creative options to address pressing problems and guide decision-making, and effectively communicating decisions to motivate change. In this seminar course, students will address these dimensions, among others, to nourish and revisit their own personal concepts of public health leadership for their future careers.

To be admitted to this four-day course, students must first complete a brief application describing their current views on leadership.
Those accepted to the course will then: 1) Learn about a range of modern-day leadership frameworks and strategies 2) Study specially designed leadership case studies about three national public health leaders who tackled complex societal challenges, as well as interact directly with them in the class 3) Reflect in small groups about lessons learned In their final essay, students will compare/contrast how the leadership frameworks apply to these national leaders; analyze the effectiveness of the leaders' decision-making and communication strategies; and reflect on how the weeklong class experience affects and changes their own personal views on leadership.

Class Notes:

Enrollment Requirements: To be admitted into this course, students must complete an application consisting of six short-answer questions available at: https://hsph.me/HPM503-2025
Course Application Due: 11/12/2024 at 11:59 PM
Admission Decisions on: 11/13/2024 EOD
Enrollment opens: 11/14/2024
Enrollment Deadline: 1/7/25

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 4: Elective |

## Health Policy & Management 505 Section: 1

Health Care Delivery Reform in the US (206976)

Michael Barnett

2025 Spring (2.5 Credits) Schedule: TR 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 45

Health care delivery in the US is an enormous, complex, and fragmented system of hospitals, clinics, rehabilitation facilities and other services. The overall purpose of this course is to provide students with a strong foundation of knowledge on the current state of the US health care delivery system and to develop tools to understand and critically evaluate major delivery reforms. This course has three main objectives: (1) illustrate the current state of health care delivery across the spectrum of settings (e.g. hospital, clinic, nursing home) and the major challenges facing this system; (2) develop a deep understanding of important delivery reform initiatives being pursued across the US and critically evaluate their capacity to achieve intended change; and (3) explore the challenges in implementing these delivery reforms.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH45 HP, MPH65 HP, HPM SM1
Wave 2 | MPH45 HM, MPH65 HM, & Wave 1
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be

automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |

## Health Policy & Management 506 Section: 1

Practical Scientific Methods for Improving Health and Heath Care (207025)

Donald Goldmann

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 50

Despite rapid advances in science and translational research, there are enormous gaps between what we know (the evidence from research) and the effectiveness of prevention and care services we provide. Improvement in health and health care outcomes has been agonizingly slow, but increasing global evidence and experience suggest that progress can be accelerated through a scientific approach to quality improvement. The purpose of this on-line course is to provide you with practical, yet rigorous methods and tools for tackling problems and getting results in public health and health care, or, in fact, for achieving credible results in any field where gaps between "knowing and doing" exist.
This course uses engaging videos, personal improvement projects, and interactive assignments to teach the fundamentals of improvement science. We will emphasize a flexible and practical methodology, The Model for Improvement, but will crosswalk this model with other approaches you are likely to encounter, including implementation science, Lean, and Six Sigma. In addition, we will explore how methods from other scientific disciplines can accelerate improvement, especially epidemiology, qualitative and ethnographic methods, program design and evaluation, information science, and behavioral science/behavioral economics. You will practice what you learn by designing, implementing, and evaluating your personal improvement project. Course faculty will offer tips on performing rigorous, publishable projects as part of routine work (including how to differentiate between quality improvement and research that requires approval from institutional human studies review boards). You will practice what you have learned by critiquing published quality improvement studies, including successful and unsuccessful efforts to scale-up promising improvement ideas. We will encourage discussion of the intersection between improvement initiatives and global equity and social justice issues. Faculty and teaching assistants will provide real-time feedback through Canvas.

Class Notes: Enrollment Requirements
Students enrolled in the MPH-EPI and MPH-GEN programs have priority enrollment in this course. Summer-focused students may waitlist themselves without receiving instructor permission. All academic year students must request instructor permission prior to adding themselves

to the waitlist.

THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH-EPI. MPH-GEN Students
Wave 2 | MPH-EPI, MPH-GEN, MPH Summer-Focused and approved petitioners
Wave 3 | MPH-EPI, MPH-GEN, MPH Summer-Focused and approved petitioners

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: This course is for MPH GEN & MPH EPI students.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Health Policy & Management 509 Section: 1

Disability Policy in the U.S. (217836)

Ellen Meara

2025 Spring (2.5 Credits) Schedule: MW 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 30

A broad definition of health incorporates the ability to participate in a full range of activities inside and outside the home. What happens when people live with health conditions that impede one's ability to learn, work, or live independently? What policies and programs in the U.S. support the income, health care needs,

and civil rights of people living with disability? In what ways do these policies work well and where do they fall short? The goal of the course is to identify major public programs and legislation likely to affect people with disabilities, to help students gain the background to analyze how policy changes have worked well or poorly to serve the needs of people living with disability, and to use this evidence base to think critically about potential changes to disability policy moving forward. We will examine public programs that provide income support (Social Security Disability Insurance and Supplemental Security Income), health insurance (Medicare and Medicaid), and civil rights protections (Americans with Disabilities Act). We will also consider special populations including people with mental illness or substance use disorders, and people who need long term services and supports. Course materials will draw upon journal articles from clinical, health policy, and social science, as well as grey literature. Students will be assessed based on participation, policy memos, and a final project focused on state disability policy.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT
Priority Wave Groups
Wave 1 | All HPM
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment
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Priority Wave Timing:
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts).

Requirements: HSPH: PW Degree Students

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Health Policy & Management 511 Section: 1

State Health Policy (211389)

John McDonough

2025 Spring (2.5 Credits) Schedule: TR 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 50

This course introduces students to U.S. health policy as practiced in and by state governments. With special expert guests and experiential exercises, we consider states' roles in: Medicaid, individual and employer commercial health insurance, public health, delivery system reform, health & human services integration, workforce, and more.
Course Note: It is helpful for students to have prior knowledge of US health policy prior to taking this class.

Class Notes: Prerequisites: HPM 210 or HPM 211 or HPM 246A or HPM 247.

Requirements: Prerequisites: HPM 210 or HPM 211 or HPM 246A or HPM 247

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |
| eForm Autosubmitter | Auto Submitter |

## Health Policy & Management 513 Section: 1

Writing Persuasively About Public Health (205644)

Gregory Harris

2025 Spring (2.5 Credits) Schedule: TR 0345 PM - 0515 PM

Instructor Permissions: Instructor Enrollment Cap: 18

This intensive course in effective writing focuses on the strategies and techniques behind great persuasive writing in topics related to public health. Every element of writing for a general audience will be explored and addressed, as well as every stage of the process, from idea generation to revision. Weekly writing assignments, along with many focused exercises, will hone skills and provide ample opportunity for feedback.

Registration Note: Enrollment in Writing Persuasively About Public Health is by permission of the instructor. To apply, please submit (1) A 200-300 word statement about a topic you wish to write about in public health and why you wish to write about it, (2) a 200-300 word self-evaluation of your strengths and weaknesses as a writer, and (3) a 3-page sample from something you've previously written. This can be an academic paper, an assignment for another class, or something written outside of school. It can be an excerpt from a longer piece. Please submit this to the course instructor via email.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| eForm Autosubmitter | Auto Submitter |

## Health Policy & Management 516 Section: 1

Healthcare Quality & Equity in the US (190625)

Jose Figueroa

Rishi Wadhera

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| 2025 Spring (2.5 Credits) | | Schedule: | TR 0200 PM - 0330 PM |
| Instructor Permissions: | None | Enrollment Cap: | 45 |

The state of healthcare quality and equity in the United States is a national concern. The objective of this course is to help students understand the conceptual frameworks, effectiveness, and limitations of how we measure and improve quality and equity of healthcare systems in the United States. Importantly, it will also provide a comprehensive overview of state and national policies that influence quality and equity of health care, including value-based payment reform and an understanding of how structural racism has shaped the US healthcare system. This course will also feature case studies and guest speakers that will share real-world insights into innovative ideas, policies, and programs aimed at making health care systems and health equity better.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH 45 HM, MPH 65 HM, HPM SM1
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Health Policy & Management 523 Section: 1

Homelessness and Health: Lessons from Health Care, Public Health, and Research (217853)

Jill Roncarati

Maggie Sullivan

2025 Spring (2.5 Credits) Schedule: TR 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 40

Timely action and critical reflection in the areas of poverty, racial/ethnic health inequities, and homelessness are necessary. With more than 580,000 people experiencing homelessness on any given night and approximately 1.4 million people relying on emergency shelters over the course of year, homelessness continues to be a significant problem in the United States (U.S.). Events such as the COVID-19 pandemic and social uprisings against racial injustices compel public health providers and researchers to better understand and address the vulnerabilities of people experiencing homelessness.

While homelessness in the U.S. is a complex issue intersecting the fields of health care, public health, and policy, this course will lead students through an introduction. We examine pathways to homelessness, disproportionately affected communities, and unique health care needs including COVID-19. The history of Health Care for the Homeless (HCH) programs and examples of other programs are discussed. Strategies for incorporating trauma-informed care into practice are identified. We discuss the fundamentals of research in homelessness and health, including innovative programs and ethical considerations. Clinicians, practitioners, and researchers share their perspectives. We employ active learning and solution-oriented approaches to challenging and persistent issues.

Requirements: HSPH: PW Degree Students

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Health Policy & Management 543 Section: 1

Quantitative Methods for Policy Evaluation (190648)

Cassandra Peitzman

Anas El Turabi

2025 Spring (2.5 Credits) Schedule: MW 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 45

This course helps students develop the tools they need to evaluate policy interventions, social programs, and health initiatives. To answer these questions, students will develop a flexible set of analytical tools, including both the ability to design an evaluation study and the ability to evaluate existing studies critically.
By the end of the course, students will be able to construct a well-designed study to answer well-posed questions, gauge the adequacy of available data, implement an econometric analysis, interpret results from quantitative studies, and draw policy implications. The course focuses on health policies such as public health insurance expansions and public health campaigns, but the techniques are broadly applicable to other

realms such as welfare or education. The course also provides a practical introduction to quantitative methods for policy evaluation, including regression analysis, propensity score matching, difference-in-differences, instrumental variables, and regression discontinuity.
Course Note: The course material is quantitative and builds on a base of statistics fundamentals, including knowledge of hypothesis testing and confidence intervals. The prerequisite is a course in basic statistics and probability, such as ID 201, BST 201, or an equivalent course. During the course, students will analyze data sets using Stata or an alternative statistical software package (such as R, SAS, or SPSS). Familiarity with at least one statistical software package, such as Stata or R, is helpful but not required.
Prerequisites: A course in basic statistics and probability, such as ID 201, BST 201, BST 202 & 203, BST 206 & 207, BST 206 & 208, BST 210, BST 213, EPI 208, or an equivalent course. Concurrent enrollment is allowed.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH45 HP, MPH65 HP
Wave 2 | MPH45 HM, MPH65 HM, PHS NUT, HPM SM1 & Wave 1
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Any of the following meet the pre-requisite for HPM 543: ID 201, BST 201, BST 202 & 203, BST 206 & 207, BST 206 & 208, BST 210, BST 213, EPI 208. Concurrent enrollment is allowed.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

## Health Policy & Management 545 Section: 1

Economics of Health Care: Public vs. Market Resolutions (190650)

Benjamin Sommers

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| 2025 Spring (2.5 Credits) | | Schedule: | TR 0945 AM - 1115 AM |
| Instructor Permissions: | None | Enrollment Cap: | 70 |

The objective of this course is to learn how to think about the major issues facing the federal and state governments as they consider how best to regulate the U.S. health care system, using an applied economics framework. In particular, the goal is for students to be able to articulate which issues require government intervention to be resolved, which problems can be resolved by private markets, and why. The course builds on introductory microeconomics and focuses on real-world examples of market failures, government policy options, and unintended consequences of public policy interventions. Among the issues we will examine in the course are: how to finance health insurance; appropriate use of risk adjustment and other strategies to manage the insurance risk pool; approaches to cost-sharing by patients; subsidies for insurance purchase; the effects of individual and employer mandates for insurance coverage; and approaches to managing health care spending. These issues all involve choices about the extent to which markets can resolve the issues and what types of government policies would help the markets work more efficiently and/or more fairly.

Course Prerequisite(s): HPM206, GHP 230, or permission of instructor if you have previously completed an alternative course in microeconomics. For the latter option, please submit by email to

a copy or link to the course syllabus of the class you took previously, as well as documentation of your grade in the course.

Class Notes:

THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH45 HM, MPH65 HM, MPH45 HP, MPH65 HP, HPM SM1
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be

automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Pre-requisites: HPM206

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Indpt. Study / Research | NO |

## Health Policy & Management 548 Section: 1

Responsible Conduct of Research (190653)

Delia Wolf Christiani

2025 Spring (1.25 Credits) Schedule: F 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 90

This course meets the NIH training requirement for all trainees, fellows, participants, and scholars receiving support through any NIH training, career development award, research education grant, or dissertation research grant. It describes basic ethical and regulatory requirements for conducting research. Topics include the following:

1. conflict of interest – personal, professional, and financial – and conflict of commitment, in allocating time, effort, or other research resources
2. policies regarding human subjects, live vertebrate animal subjects in research, and safe laboratory practices
3. mentor/mentee responsibilities and relationships
4. safe research environments (e.g., those that promote inclusion and are free of sexual, racial, ethnic, disability and other forms of discriminatory harassment)
5. collaborative research, including collaborations with industry and investigators and institutions in other countries
6. peer review, including the responsibility for maintaining confidentiality and security in peer review
7. data acquisition and analysis; laboratory tools (e.g., tools for analyzing data and creating or working with digital images); recordkeeping practices, including methods such as electronic laboratory notebooks
8. secure and ethical data use; data confidentiality, management, sharing, and ownership
9. research misconduct and policies for handling misconduct
10. responsible authorship and publication
11. the scientist as a responsible member of society, contemporary ethical issues in biomedical research, and the environmental and societal impacts of scientific research

Course Note: HSPH Graduate students, post-doc fellows, and HSPH junior faculty members will be allowed to

take the course without paying tuition, but are expected to attend all lectures, participate in class discussions and complete homework assignments.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |

## Health Policy & Management 552 Section: 1

Health Policy and Leadership (190656)

2025 Spring (1.25 Credits) Schedule: M 1130 AM - 0100 PM
M 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 30

Sponsored by the Harvard Chan Menschel Senior Leadership Fellowship Program, Menschel Fellows teach a course unique to their career and leadership experience, addressing topics like politics and public health, health equity, policy implementation, poverty and access to healthcare, community health, universal health coverage, and beyond. For more on Senior Leadership Fellow courses and current offerings, visit https://hsph.harvard.edu/fellowship-special-program/senior-leadership-fellows/.

Class Notes: This section of HPM 552 will be taught by Menschel Senior Leadership Fellow Dr. Ashwin Vasan.

The Spring 2025 Senior Fellow, Dr. Ashwin Vasan, SM, MD, PhD, brings unparalleled experience to help students answer this question. Dr. Vasan, former Commissioner of the New York City Department of Health and Mental Hygiene (2022–2024), has dedicated his career to advancing equity-focused solutions in health policy and governance. From improving life expectancy and mental health systems to reducing medical debt and expanding reproductive healthcare, his leadership addresses some of the most pressing and contentious issues in public health today.

This course, "Public Health in Divided Times," provides a rare opportunity to learn directly from a public health leader who has worked at the intersection of policy, governance, and social change. Dr. Vasan will share his insights and experiences in building equity-focused and sustainable solutions while navigating political and social challenges. This course offers a dynamic classroom experience that combines engaging in-class seminars, thought-provoking guest speakers, and interactive activities designed to deepen understanding and foster practical leadership skills.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Health Policy & Management 552 Section: 2

Health Policy and Leadership (190656)

Andrew Dreyfus

2025 Spring (1.25 Credits) Schedule: R 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 30

Sponsored by the Harvard Chan Menschel Senior Leadership Fellowship Program, Menschel Fellows teach a course unique to their career and leadership experience, addressing topics like politics and public health, health equity, policy implementation, poverty and access to healthcare, community health, universal health coverage, and beyond. For more on Senior Leadership Fellow courses and current offerings, visit https://hsph.harvard.edu/fellowship-special-program/senior-leadership-fellows/.

Class Notes: This course will examine the underlying mission and role of health plans and study cases where private health plans – particularly not-for-profit plans -- attempted to advance health care reform through expanded coverage, value-based payments, improved health equity, better care for people with serious illness, and expanded access to mental health services. Drawing on case studies from Massachusetts and other states, the course will explore the competing economic and political positions of regulators, employers, health plans, health providers, and patients and how leaders negotiate tradeoffs, which in turn influences the pace and scope of change. Finally, this course will also consider how health insurers contribute to conflict and inefficiency in the US health system. Students will be encouraged to share their perspectives, both positive and negative, with health insurance, and the class will explore whether other models of health coverage would advance more meaningful change in the US. The course will also evaluate what further steps private plans could take to improve health care affordability, quality, equity and public health. Ultimately, the class will attempt to answer the question: Can health plans be a force for good?

This will be an interactive, discussion-based course. While there are no formal prerequisites to this course, students should know that there will be limited lectures to provide background about the US Health System. The major assignment for the class will be a policy memo – written to a health plan CEO -- that recommends advancing one aspect of health system change.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Health Policy & Management 552 Section: 3

Health Policy and Leadership (190656)

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|---|---|---|---|
| 2025 Spring (1.25 Credits) | | Schedule: | R 0945 AM - 1115 AM |
| Instructor Permissions: | None | Enrollment Cap: | 30 |

Sponsored by the Harvard Chan Menschel Senior Leadership Fellowship Program, Menschel Fellows teach a course unique to their career and leadership experience, addressing topics like politics and public health, health equity, policy implementation, poverty and access to healthcare, community health, universal health coverage, and beyond. For more on Senior Leadership Fellow courses and current offerings, visit https://hsph.harvard.edu/fellowship-special-program/senior-leadership-fellows/.

Class Notes: This section will be taught by Menschel Senior Leadership Fellow Marcia L. Fudge, who served as the 18th United States Secretary for Housing and Urban Development and as a member of the U.S. House of Representatives, representing Ohio's 11th congressional district.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |

## Health Policy & Management 561 Section: 1

Loneliness and Public Health (215109)

Jeremy Nobel

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| 2025 Spring (1.25 Credits) | | Schedule: | TWRF 0900 AM - 1215 PM |
| Instructor Permissions: | None | Enrollment Cap: | 16 |

The course will have two major components: an intensive didactic learning curriculum composed of lecture, assigned readings, and discussion, and an experiential team-based collaborative project.
For the didactic portion, students will learn the 'ins and outs' of loneliness within the public health landscape, as well as key tools and a framework for developing successful public health interventions. Class discussions will also cover loneliness as it relates to the impact of the COVID-19 pandemic and its effect on at-risk populations.
Required and optional readings will be assigned before class. Lectures will be followed by a systematic and engaged unpacking of the material in interactive discussion.
In the collaborative project component of the course, students will form into teams and develop their own effective, scalable and sustainable public health interventions designed to tackle loneliness, with a key emphasis on identifying and eliminating barriers to success and developing measurement models to assess benefit. The group project will culminate in an oral presentation on the final day of class, and the delivery of a written report.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Winter Session | Winter Session |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |

## Health Policy & Management 566 Section: 1

Advocacy and Organizing for Health Policy (221988)

Amy Rosenthal

Alexander Sheff

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| 2025 Spring (1.25 Credits) | | Schedule: | M 0530 PM - 0730 PM |
| Instructor Permissions: | None | Enrollment Cap: | 30 |

A public health degree is an important tool for preparing individuals who want to advance health care policy changes on behalf of individuals, families and specific populations of people. But how do you make this change happen? How do you take a policy from conception to implementation? How do you do this with a particular focus on the people who use the health care system, particularly those whose voices often go unheard?

This class will prime students to be able to conceptualize, manage and advance advocacy campaigns aimed at making health care policy. It will provide students with an understanding of both the very practical, hands-on skills they need to drive change and how to make the strategic decisions to advance their work. Students will work on one health policy issue area of their choice throughout the course, putting the building blocks in place to make change in their community, state or country.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Health Policy & Management 567 Section: 1

Population Health Management (221736)

Stephanie Ferguson

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| 2025 Spring (2.5 Credits) | | Schedule: | MTWRF 0800 AM - 0430 PM |
| Instructor Permissions: | None | Enrollment Cap: | 10 |

This course is designed to examine and develop strategies to improve health within and across populations. We will cover patterns of health determinants; population and primary health care management principles; decision science for public health nursing, policies, and interventions; and public health metrics and outcomes. The course will be delivered in nine three-hour sessions with pre- and post-course work expected. Pre-Requisite: HPM 564. You must have received a grade in HPM 564, Health Systems Strengthening, prior to taking this course. Course restricted to students in the Harvard Global Public Health for Nurse Leaders Certificate program.

Class Notes: Pre-Requisite: HPM 564. You must have received a grade in HPM 564, Health Systems Strengthening, prior to taking this course. Course restricted to students in the Harvard Global Public Health for Nurse

Leaders Certificate program.

Requirements: .Pre-Requisite: HPM 564.
You must have received a grade in HPM 564, Health Systems Strengthening, prior to taking this course.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Health Policy & Management 568 Section: 1

Designing and Managing Person-Centered, Safe Care Organizations (222003)

Susan Edgman-Levitan

2025 Spring (2.5 Credits) Schedule: TR 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 31

The person-centeredness and safety of health care is a national concern. Several new initiatives led by HHS, AHRQ and the Institute for Healthcare Improvement are revitalizing the focus on person-centered care and patient safety, especially in the wake of the COVD pandemic. This course will share the history of these two interrelated movements over the last twenty years to inform future healthcare leaders about how to ensure that the care they lead is person-centered and safe for patients and their workforce. It will also focus on evidence-based strategies to improve the measurement and delivery of care that matters most to patients, clinicians, administrators, and health system leaders. The course will also include information about national policies that have influenced the quality and safety of care. Guest speakers will share the important historical landmarks and will emphasize recent developments and innovative initiatives and policies that are important for emerging healthcare leaders. This course is designed to prepare a broad range of students interested in careers as healthcare leaders, clinicians, researchers, and consultants with the conceptual background and practical improvement strategies to impact the delivery of care.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |

## Health Policy & Management 571 Section: 1

For the Mission or the Money? Hospitals & the Changing Landscape of Health Care Provision in America (221816)

Alecia McGregor

2025 Spring (2.5 Credits) Schedule: TR 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 30

When COVID-19 arrived in the United States in March 2020, experts questioned whether the hospital system would collapse under the stress of the pandemic. With fewer hospital beds per capita than almost any other

industrialized nation, the U.S. health care system hung in a precarious balance. In the decades preceding the pandemic, hospitals, and critical hospital service lines, disproportionately closed in communities of color- the very communities that were most at risk for COVID infection, hospitalization and death. How did the state of hospital care arrive at this point? In this seminar, we will trace the evolution of the hospital as a community-based institution with a social mission to its increasingly common location as part of large, integrated hospital systems that operate as business enterprises.

We will explore questions such as: How has hospital care in the United States evolved over the last century? How have federal and state public policies influenced the frequency of hospital mergers, reconfigurations and closures? How does the arrangement of hospital systems affect access to acute care locally and nationally, in rural and in urban areas? How prepared were U.S. hospitals for COVID-19, and how has the pandemic impacted the hospital sector? What role do smaller non-hospital entities, such as ambulatory surgical care centers and community health centers play in providing care? What implications do hospital business decisions have on equity of access across race, class and place?

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| eForm Autosubmitter | Auto Submitter |

## Health Policy & Management 572 Section: 1

Reforming Policies and Regulations (222070)

Stephanie Ferguson

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| 2025 Spring (2.5 Credits) | | Schedule: | MTWRF 0800 AM - 0430 PM |
| Instructor Permissions: | None | Enrollment Cap: | 10 |

This course will build on the 7C's model (Atun, R. & Moore, G., 2021), Primal Health Coach Institute (PHCI) Conceptual frameworks, theories, and deliverables from both HPM 564 and HPM 567. It will place the model theories and frameworks in the specific context of policies and regulations, and then use that positioning to extend the prior deliverables.

In this course, students will gain additional necessary knowledge to plan, implement, and evaluate action- and learning-based regulatory and policy reform strategies and interventions. They will review global exemplars of approaches taken and implemented by diverse regulatory organizations and learn skills for developing models and making recommendations that will transform and strengthen their designated health systems and health profession regulatory models. Building on the applied project from HPM 564 and HPM 567, students will learn to prepare a policy brief and needed regulatory reform recommendations for their final applied project part 3. The course will be delivered in nine three-hour sessions with pre- and post-course work expected.

Requirements: Pre-Requisites: HPM 564 & HPM 567
Course restricted to students in: Harvard Global Public Health for Nurse Leaders Certificate

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 3: Essential Course |

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Health Policy & Management 573 Section: 1

The Volume to Value Transition: Value-Based Care in Healthcare Organizations (224134)

Bonnie Blanchfield

Gregg Meyer

2025 Spring (2.5 Credits) Schedule: TR 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 36

Improving the value of care delivered is a focus of health systems globally as they address the challenge of improving health in a financially sustainable manner. Through financial incentives and other methods, value-based care aims to hold providers more accountable for improving patient outcomes while also giving them greater flexibility to deliver the right care at the right time. In this course you will learn the reasons behind the volume to value transition, strategies to affect that transition, challenges in shifting to a value-based model of care, and actions to mitigate those challenges. The approach to learning will include critical reviews of the theory behind value-based care as well as practical experience from leaders in the field who have been "in the trenches." Upon completion of the course you will be prepared to critically evaluate value-based care efforts from a strategic, operational, and policy perspective to enable you to become future value-focused leaders. This course is intended to be an elective course for Health Management students but may be of interest to Health Policy and DrPH students.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| HSPH: Conditionally Approved | Conditionally Approved Course |

## Health Policy & Management 574 Section: 1

Digital Health (224215)

Lisa Gualtieri

2025 Spring (2.5 Credits) Schedule: MW 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 50

Digital health technologies have infiltrated every aspect of healthcare, from those used by providers, like EHRs, to apps used by individuals to manage their physical or mental health. We look at how digital health technologies are adopted and used, how patients generate data through smartphones, sensors, trackers, and other devices, how providers generate and use patient data, and how technology can assist in prevention, diagnosis, treatment, and behavior change in individuals and populations. You will learn how to evaluate existing technologies and how to design innovative ones to better understand the many factors influencing success and failure including social determinants of health, health literacy skills, and digital literacy skills.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Health Policy & Management 575 Section: 1

Organizing: People, Power, Change (225945)

Marshall Ganz

2025 Spring (5 Credits)

Schedule: F 0100 PM - 0530 PM
SS 0900 AM - 0530 PM
F 0100 PM - 0530 PM
SS 0900 AM - 0530 PM
TR 0130 PM - 0245 PM

Instructor Permissions: Instructor

Enrollment Cap: 12

Fulfilling the democratic promise of equity, accountability, and effectiveness requires the participation of an "organized" citizenry able to formulate, articulate, and assert its shared interests. Organizing, in turn, requires leadership: accepting responsibility for enabling others to achieve shared purpose in the face of uncertainty. Organizers ask three core questions:

1. Who are my people?

2. What is the change we need?

3. How can we turn our resources into the power we need to achieve that change?

Organizers learn to identify, recruit and develop leadership, build community with that leadership, and create power from resources of that community.

This practicum has two modes.

During the first part of the course, Campaign Design, students participate in an 18-day "courseshop", bookended by two 2.5 day weekend workshops during the weekends of February 14-16 & February 28 - March 2. Students learn with plenary lectures, small group practice and coaching. Requirements include consistent attendance, active participation, selected readings, a 600 word pre-module paper and a 700 word post-module paper. In the 12 days between the two weekend workshops this module will require approximately 15 hours of work (one-to-ones with constituents, team meetings, and meetings with your

Teaching Fellow).

In the second half of the course, Campaign Leadership, students participate in plenary sessions on Tuesdays and in sections on Thursdays, from March 24 to May 2. In plenary, we focus on challenges that arise from running an organizing campaign, gain insights from cases, readings, lecture and discussion. In section, we coach each team's practice leading their campaign as they meet new challenges and discover new opportunities.

You will learn not only "about" these practices.  You will learn to practice them experientially, coach others in the practice, and receive coaching yourself.  We encourage a "growth mindset" for this practicum: try new things, take some risks, ask new questions.

This practicum is for students interested in learning to create social change through collective action. There are no prerequisites to enroll in the course. Students with and without "real world" organizing experience can find the class equally useful. Students with a strong commitment to the community, organization, or values on behalf of which they are working will be most successful. Because it is a course in practice, it requires trying new things, risking failure, and stepping outside one's comfort zone. As reflective practitioners, students learn through critical reflection on their experience, feedback, and coaching. Be certain you are prepared for the emotional, behavioral, and conceptual challenges in which the work of organizing is grounded.

All students interested in enrolling in HPM 575 must submit a Student Commitment Form by midnight on January 24, 2025.

Class Notes: Class Meeting Location (Spring 2): Wexner 436

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Health Policy & Management 945B Section: 1

Applied Practice and Integrative Learning Experience for Health Policy (MPH45) (205237)

Amy Rosenthal

Audrey Gasteier

| | | | |
|---|---|---|---|
| 2025 Spring (1.25 Credits) | | Schedule: | W 0530 PM - 0700 PM |
| Instructor Permissions: | Instructor | Enrollment Cap: | 48 |

All students completing a Master of Public Health degree must complete an Applied Practice Experience ("Practicum") and an Integrative Learning Experience (ILE). This required course is designed to meet both these degree requirements. In the course, students will identify and complete a practicum that will be of

value to their professional development and career goals. Students will also share their practicum experience with their MPH colleagues via a "peer-to-peer" joint learning experience. A final required health policy paper will require students to demonstrate the ability to integrate and synthesize selected program competencies. Class sessions will focus on developing tools and insights that will be useful in future professional practice in health policy and public health.

This is a year-long course worth a total of 2.5 credits (1.25 in the fall and 1.25 in the spring).

Grade Note: HPM 945 is comprised of two parts: Part A in the Fall and Part B in the Spring. The grade and 2.5 credits are only reflected on the transcript after students have completed both Part A and Part B in the spring. At the end of the Fall term, students will receive an "IP" ("In Progress") grade in HPM 945A. When the Spring grades are posted, the student's final grade will replace the "IP" grade on the transcript, and the transcript will reflect the full 2.5 credits.

Course Requirements: Course restricted to MPH-45 HP students. This is a required course.

Requirements: Course Restricted to MPH45 Health Policy Students

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| Course Search Attributes | Display Only in Course Search |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| Full Year Course | Indivisible Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH:Year Long Course | HSPH:Year Long Course |

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## Health Policy & Management 946B Section: 1

Applied Practice and Integrative Learning Experience for Health Management (205240)

William Bean

2025 Spring (1.25 Credits) Schedule: T 0530 PM - 0700 PM

Instructor Permissions: Instructor Enrollment Cap: 62

All students completing a Master of Public Health degree must complete an Applied Practice Experience ("Practicum") and an Integrative Learning Experience (ILE). This required course is designed to meet both these degree requirements. In the course, students will identify and complete a practicum that will be of value to their professional development and career goals. Students will also share their practicum experience with their MPH colleagues via a "peer-to-peer" joint learning experience. A final required health management case study will require students to demonstrate the ability to integrate and synthesize selected program competencies. Class sessions will focus on developing tools and insights that will be useful in future professional practice in health management and public health.

This is a year-long course worth a total of 2.5 credits (1.25 in the fall and 1.25 in the spring).

Grade Note: HPM 946 is comprised of two parts: Part A in the Fall and Part B in the Spring. The grade and 2.5 credits are only reflected on the transcript after students have completed both Part A and Part B in the spring. At the end of the Fall term, students will receive an "IP" ("In Progress") grade in HPM 946A. When the

Spring grades are posted, the student's final grade will replace the "IP" grade on the transcript, and the transcript will reflect the full 2.5 credits.

Course Requirements: Course restricted to MPH-45 HM students. This is a required course.

Requirements: Course Restricted to MPH45 Health Management Students

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH:Year Long Course | HSPH:Year Long Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| Course Search Attributes | Display Only in Course Search |
| Full Year Course | Indivisible Course |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |

## Subject: Health Care Management

### Health Care Management 702.2 Section: 1

Marketing (213400)

Linda Maccracken

2025 Spring (1.25 Credits) Schedule: S 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 32

Marketing in the digital landscape calls for a variety of challenges as consumer digital adoption, technology, emerging competitors and data integration changes rapidly. This class prepares students to be effective marketing leaders in landscapes that require focused resource allocation that integrate digital and physical services, and equips them to make strategic decisions in preparing and approving customer centered initiatives. Students will gain a working knowledge of the marketing landscape based on quantifiable addressable market, differentiation, brand strength, customer centricity and targeted engagement through product, place / channel, pricing and promotion in competitive markets. Students will use cases and a team based project learn to critically assess marketing plans and evaluate a range of approaches and methods to measure value driven offerings. Plan on fast-paced case discussions and hands-on group project work.

Course Restriction: HCM Students only

Requirements: HSPH: HCM Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH:Year Long Course | HSPH:Year Long Course |

## Health Care Management 707.3 Section: 1

Health Care Management Practicum (213392)

Linda Cyr

Henry Bernstein

2025 Spring (2.25 Credits) Schedule: F 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 32

The Practicum provides students with an opportunity to integrate and apply the knowledge and leadership skills gained throughout the MHCM program by completing a comprehensive, independent project of their own choosing during the academic year. Students' self-selected projects might entail transforming an existing situation within their existing organizations or developing a business plan for a completely new, innovative initiative. Students will propose a project, develop a project plan, and build the business case to win approval and implement the idea.

Course Restricted: HCM students only

Requirements: HSPH: HCM Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH:Year Long Course | HSPH:Year Long Course |
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |

## Health Care Management 708.2 Section: 1

Social and Behavioral Determinants of Health (213489)

Monica Wang

2025 Spring (1.25 Credits) Schedule: F 0800 AM - 0930 AM

Instructor Permissions: None Enrollment Cap: 32

The aim of this course is to provide students with a foundation in the core concepts of the social and behavioral determinants of health. This course analyzes major social variables that affect population patterns in health and health behavior, including socioeconomic status, race/ethnicity, neighborhoods, work, and social relationships. Through a combination of online and in-class seminars, students will examine the potential role of various social, policy, and environmental interventions in improving health. Building upon the empirical and theoretical literature covered in the online content and selected readings, students will discuss models for advancing population health management using case-based methodology.

Course Activities: Short written assignments, class discussion (online and in-person), final project.

Course Restriction: HCM Students only

Requirements: HSPH: HCM Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH:Year Long Course | HSPH:Year Long Course |
| eForm Autosubmitter | Auto Submitter |

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Course Category | Category 2: Required Course |

## Health Care Management 709.2 Section: 1

Communication Skills for Managers (213491)

Jack Rossin

2025 Spring (0.63 Credits) Schedule: S 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 32

Health care executives are increasingly called upon to communicate with a wide range of internal and external groups. This course will focus on the competencies necessary to deliver presentations successfully in a variety of situations that involve subordinates, superiors, with the board, peers, and external constituencies like the media. Students will learn to analyze challenging communication situations, prepare for contingencies, think on their feet, answer difficult questions and develop poise and confidence under pressure.

Course Restricted: HCM students only

Requirements: HSPH: HCM Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH:Year Long Course | HSPH:Year Long Course |

## Health Care Management 719.2 Section: 1

Financial Transactions and Analysis (213493)

Samuel Levitt

2025 Spring (1.25 Credits) Schedule: F 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 32

This intensive course introduces concepts of financial accounting to the non-accountant user of financial information. Basic accounting transactions, statement preparation, and concepts of accrual versus cash accounting are presented in the first half of the course. The remainder of the course focuses on financial analysis of a variety of health care organizations.

Course Note: Completion of pre-work on basic accounting concepts required before class begins. Working ability with spreadsheets also required.

Course Restricted: HCM students only

Requirements: HSPH: HCM Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| HSPH:Year Long Course | HSPH:Year Long Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

## Health Care Management 720.2 Section: 1

Cost Accounting and Control Systems (213495)

Richard Siegrist

2025 Spring (1.25 Credits) Schedule: S 0800 AM - 0930 AM

Instructor Permissions: None Enrollment Cap: 32

The course is designed to introduce students to cost accounting and management control concepts and uses for health service organizations. The first part of the course develops a basic knowledge of cost accounting, including full and differential costing techniques. The remainder of the course focuses on management control structure and process, and addresses topics such as responsibility accounting, budgeting, reporting and variance analysis.

Course Restricted: HCM students only

Requirements: HSPH: HCM Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH:Year Long Course | HSPH:Year Long Course |

## Health Care Management 731.2 Section: 1

Competitive Strategy Determination (213497)

Mariam Atkinson

Laurie Sprung

2025 Spring (1.25 Credits) Schedule: S 0800 AM - 0930 AM

Instructor Permissions: None Enrollment Cap: 32

This course focuses on the conceptual framework needed to plan for the long-term viability of health care organizations. Using selected readings and case studies of both health care and non-health care organizations, students will learn to appreciate the concepts of competitive strategy and competitive advantage primarily through practice in analysis. The objective is to provide students with the conceptual tools and the practical skills to enable them to formulate, execute, and evaluate organizational strategy.

Course Restricted: HCM students only

Requirements: HSPH: HCM Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH:Year Long Course | HSPH:Year Long Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

## Health Care Management 755.2 Section: 1

Provider Payment Systems and Policy (213499)

Jeff Levin-Scherz

Carolyn Langer

2025 Spring (1.25 Credits) Schedule: S 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 32

HCM 755 will address the financial and regulatory structure of health care to help students assess how they can best influence health care to benefit patients, institutions, and society as a whole. We will evaluate multiple dimensions of health care cost and payment, with an emphasis on how payment systems influence provider organization, behavior and performance. The focus of this course is the US health care system, although class members will also examine provider payment across multiple countries. We will examine various stakeholder points of view on health care regulation and finance – and assess how regulation and finance can drive changes in health care delivery and can lead to different experiences and outcomes for both providers and patients.
The course includes case studies, didactic material, and exercises. A group midterm project, a response paper and a blog post, a final paper, and regular preparation for and participation in class are required.
Our goal is for students to complete the course with a better understanding of how health care is structured and financed, the stakeholders who influence health care policy and delivery, and the ability and desire to ask critical questions and evaluate proposals to drive increased value in health care.
Course Restricted: HCM students only

Requirements: HSPH: HCM Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH:Year Long Course | HSPH:Year Long Course |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Health Care Management 758.3 Section: 1

Field Project in Quality Improvement (213396)

Josko Silobrcic

Evan Benjamin

Catherine Kreatsoulas

2025 Spring (1 Credits) Schedule: M 0800 AM - 0930 AM

Instructor Permissions: None Enrollment Cap: 32

This course will provide physician executives with pragmatic, applied, real-world insights into quality improvement (QI) in healthcare organizations, based on the application of proven strategic and tactical frameworks, methodologies and tools to their own quality-related field projects, performed during the 2nd academic year of the MHCM program. Throughout their efforts, from project conception, design and planning, to measurement, implementation, analysis and follow-up actions, the students are mentored and guided (individually and in small groups) by expert course faculty. The course follows and closely complements the HCM 711 (Quality Improvement and Quantitative Methods in Quality Management) summer/fall course, which provides the conceptual and methodological bases, analytic tools and practices for the field project. At the end of this course, students will be better prepared for and substantially proficient in their own roles in quality improvement and management, leading/supporting their organizations' efforts in those areas using sound, science-based and systematic, methodical and analytic approaches and processes.

Course Restricted: HCM students only

Requirements: HSPH: HCM Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH:Year Long Course | HSPH:Year Long Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |

## Health Care Management 777.2 Section: 1

Innovation and Entrepreneurship in Health Care (216359)

Richard Siegrist

2025 Spring (0.65 Credits) Schedule: S 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 30

This course is designed to expose students to the theory and practice of innovation and entrepreneurship in health care settings, both domestically and abroad. The first half of the sessions focus on various aspects of starting and growing a new health care business, whether a for-profit or non-profit venture. The second half of the sessions focus on fostering innovation and intrapreneurship in established organizations such as non-profit, for-profit or governmental organizations engaged in health care related activities.

Course Restricted: HCM students only

Requirements: HSPH: HCM Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH:Year Long Course | HSPH:Year Long Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Conditionally Approved | Conditionally Approved Course |

## Health Care Management 778.2 Section: 1

Skills & Methods of Health Care Negotiation & Conflict Resolution (215811)

Linda Kaboolian

2025 Spring (1.25 Credits) Schedule: F 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 30

The objective of this course is to improve negotiation, communication and conflict resolution skills for use in professional and personal settings. This course introduces students to the theory and practice of negotiation and conflict resolution. Particular emphasis is placed on integrating analytic skills, negotiation techniques and conflict resolution methods into the practice of health care management. The class is organized around hands-on simulations where general concepts and methods are demonstrated and practiced. These exercises model fundamental dilemmas in negotiation and are generalizable to disputes typical of health care settings and health care management problems. The debriefings that follow each exercise offer individual feedback, as well as the opportunity to examine applied issues of organizational communication, system design and conflict.

Course Restricted: HCM students only

Requirements: HSPH: HCM Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH:Year Long Course | HSPH:Year Long Course |

## Health Care Management 782.2 Section: 1

Innovative Problem Solving & Design Thinking for Health (213501)

Linda Cyr

2025 Spring (1.25 Credits) Schedule: F 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 32

The capacity to innovate is critical in today's rapidly changing healthcare environment. Design thinking is a disciplined approach to innovation that has been adopted by leading healthcare organizations (e.g. Mayo Clinic, Kaiser, IBM Watson Health) and government agencies (e.g. CDC, HHS). In contrast to a traditional approach to problem solving that focuses on deciding among known solutions, an innovative approach seeks the best solution possible given available resources, time, and team competencies. Innovative problem solving maximizes learning to reduce uncertainty by focusing on generation of new alternatives, experimentation, and exploration of multiple solutions. This course includes a mix of individual and group exercises in class as well as a series of assignments that enable students to effectively use innovation tools, acquire skills, and adopt mindsets that complement the analytical approaches developed in other courses.

Course restriction: HCM students only

Requirements: HSPH: HCM Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH:Year Long Course | HSPH:Year Long Course |
| HSPH: Course Category | Category 2: Required Course |

## Subject: Decision Science

### Decision Science 202 Section: 1

Decision Science for Public Health (204407)

Sue J. Goldie

2025 Spring (2.5 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 57

Challenges in public health policy and clinical medicine are marked by complexity, uncertainty, competing priorities and resource constraints. This course is designed to introduce the student to the methods and applications of decision analysis and cost-effectiveness analysis in clinical and public health decision making. The objectives of the course are: (1) to provide a basic introduction to the methods and tools of decision science and to recognize when, how, and in what context they can provide value in clinical and public health decision making; (2) to equip students with the ability to structure and bound a decision problem logically (articulating the objective, perspective, and time horizon) and to identify key elements (alternatives, uncertainties, and outcomes) and influential factors (preferences, risk attitudes, values); (3) to provide students with basic skills in revising probabilities given new information, building and analyzing decision trees, and conducting a cost-effectiveness analysis; (4) to enable students to thoughtfully and critically evaluate published analyses conducted to evaluate or inform clinical strategies, health technologies, and public health policies in developed and developing countries.

This course serves as a pre-requisite for RDS 285 and RDS 288. Students cannot take RDS 202 if they have already taken RDS 280 or RDS 286 (exceptions only allowed with permission of RDS 202 instructor).

Class Notes:

Enrollment Requirements
Students enrolled in the MPH-EPI and MPH-GEN programs have priority enrollment in this course. Students will be enrolled in the course (if space available) according to the following waves:

THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH-EPI and MPH-GEN
Wave 2 | Wave 1 + All other students
Wave 3 | Wave 1 + All other students

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts).

Requirements: Students enrolled in the MPH-EPI and MPH-GEN programs have priority enrollment in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Program Affiliation | MPH-EPI |

## Decision Science 203 Section: 1

Advanced Computational Methods for Disease Modelling (224659)

Zachary Ward

2025 Spring (2.5 Credits) Schedule: MW 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 30

This is an advanced course on statistical and computational methods that are applicable for disease modelling in public health and medicine. Students will learn to apply state-of-the-art methods related to three core modules: 1) Numerical Methods, 2) Simulation-based Inference, and 3) High Performance Computing. This course is primarily intended for quantitative doctoral students (e.g., decision science, epidemiology, biostatistics), but is also open to advanced master's students with an interest in computational science.
Prerequisites include a course in mathematical modeling (RDS 285 or RDS 288), probability and statistics (BST201 or ID201 or (BST 206 and BST 207)), and basic knowledge of mathematical notation and reasoning. Prior programming experience (e.g., R, Python, C++, Java) is strongly recommended.

Requirements: Pre-requisites: (RDS 285 or RDS 288) and (BST 201 or ID 201 or (BST 206 & BST 207)).

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |

## Decision Science 282 Section: 1

Economic Evaluation of Health Policy & Program Management (191104)

Stephen Resch

2025 Spring (2.5 Credits) Schedule: MW 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 70

This course features the application of health decision science to policymaking and program management at various levels of the health system. Both developed and developing country contexts will be covered. Topics include: [1] theoretical foundations of cost-effectiveness analysis (CEA) with comparison to other methods of economic evaluation; [2] challenges and critiques of CEA in practice; [3] design and implementation of tools and protocols for measurement and valuation of cost and benefit of health programs; [4] use of evidence of economic value in strategic planning and resource allocation decisions, performance monitoring and program evaluation; [5] the role of evidence of economic value in the context of other stakeholder criteria and political motivations.
Course Prerequisites: Students must have taken RDS280 or RDS286. Concurrent enrollment is allowed. Prior coursework in Microeconomics is recommended.

Requirements: Prerequisites: RDS280 OR RDS286 (concurrent enrollment allowed).
Prior coursework in Microeconomics is recommended.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Indpt. Study / Research | NO |

## Decision Science 285 Section: 1

Decision Analysis Methods in Public Health and Medicine (191106)

Nicolas Menzies

2025 Spring (2.5 Credits) Schedule: MW 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 60

An intermediate-level course on methods and health applications of decision analysis modeling techniques. Topics include Markov models, microsimulation models, life expectancy estimation, cost estimation, deterministic and probabilistic sensitivity analysis, value of information analysis, and cost-effectiveness analysis.

Course Note: Familiarity with matrix algebra and elementary calculus may be helpful but not required; lab or

section times to be announced at first meeting.

Course Prerequisites: (BST201 or ID201 or (BST 206 and BST 207)) and (RDS280 or RDS286 or RDS 202). Concurrent enrollment is allowed for RDS 286. Concurrent enrollment is not allowed for RDS 202.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH45 HP, MPH65 HP, DRPH, HPM SM1
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Pre-requisites: (BST201 or ID201 or (BST 206 and BST 207)) and (RDS280 or RDS286 or RDS202). Concurrent enrollment is allowed for RDS 286. Concurrent enrollment is not allowed for RDS 202.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Decision Science 290 Section: 1

Experiential Learning and Applied Research in Decision Analysis (206897)

Ankur Pandya

2025 Spring (2.5 Credits) Schedule: F 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 24

This course is geared towards Masters-level students from any department. Students will undertake semester-long research projects on a clinical or public health decision problem using decision analysis,

simulation modeling, and/or cost-effectiveness analysis. Each session will be dedicated to a particular topic of decision analytic methods or student presentations of prospectus, works-in-progress, and final projects. Students may work alone or in pairs, including at least one student who is familiar with the clinical content area of the project.

Prerequisite: (RDS 280 or 286 or 202, any of which cannot be taken concurrently to satisfy the prerequisite) and (RDS 285, which can be taken concurrently to satisfy the prerequisite, or 288)

Requirements: Prerequisite: (RDS 280 or 286) and (RDS 285 or 288)

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Subject: Interdepartmental

### Interdepartmental 240 Section: 01

Principles of Injury Control (190764)

David Hemenway

2025 Spring (2.5 Credits) Schedule: R 0400 PM - 0650 PM

Instructor Permissions: None Enrollment Cap: 50

This course provides an introduction to a serious public health problem - intentional and unintentional injury - and provides a framework for examining control options. Specific categories of injuries, such as motor vehicle crashes and violence, and specific risk factors for serious injury such as firearms, are examined in detail.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH45 HM, MPH65 HM, MPH45 HP, MPH65 HP, HPM SM1
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |

# Immunology and Infectious Disease

## Subject: Immunology Infectious Disease

### Immunology Infectious Disease 207 Section: 1

Infectious Disease Outbreaks of the 20th and 21st Centuries:Strategies for Investigation and Control (211064)

Roger Shapiro

2025 Spring (2.5 Credits) Schedule: TR 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 30

Infectious disease outbreaks gave rise to the fields of epidemiology and public health, and remain critical drivers of public health policy and expenditures. Modern infectious disease outbreaks continue to challenge our methods of investigation and control, but new laboratory and investigative techniques, and in some cases new control measures, are also available. This course will provide a case-based approach to the investigation and control of landmark and representative infectious disease outbreaks and epidemics in the modern era. The focus on "epidemic potential" will provide a foundation for the student to understand how each pathogen exploits unique biologic and environmental opportunities, and how these can be addressed in the public health response. Course readings and projects will concentrate on the fundamental epidemiologic skills needed to investigate and control an outbreak, and lectures will explore key questions raised by important epidemics.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Classification | Even Year Class |
| HSPH: Course Category | Category 3: Essential Course |
| eForm Autosubmitter | Auto Submitter |

## Immunology Infectious Disease 209 Section: 1

Microbial Communities and the Human Microbiome (211163)

Curtis Huttenhower

2025 Spring (2.5 Credits) Schedule: MW 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 20

This course introduces students to the human microbiome and other microbial community concepts, including survey topics on relevant components of immunology, microbiology, ecology, health practice, and bioinformatics. It includes examples of the human microbiome's relevance to public health, such as chronic disease (e.g. cancer, inflammatory bowel disease). It also introduces study design considerations, model systems, and technologies for studying the microbiome in public health. Students completing the course will be able to:

- Identify translational, basic biological, and population health topics relevant to the microbiome.
- Read and discuss current research literature on microbial community studies.
- Employ animal, molecular, and computational tools for microbial community research.
- Propose and execute introductory studies incorporating microbiome components and molecular technologies.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 3: Essential Course |

## Immunology Infectious Disease 350 Section: 1

Research (190843)

Matthias Marti

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department. Inquiries about specific research opportunities should be addressed to the chair of the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

# Master of Public Health

## Subject: Master of Public Health

### Master of Public Health 102 Section: 2

Health Systems (213633)

Meredith Rosenthal

Rifat Atun

2025 Spring (1.25 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 300

Health systems are the foundation of health care delivery and an essential component of the public health landscape. Health Systems is designed to provide MPH students with an understanding of the components of a health system and alternative ways of understanding its structure, functions, and effectiveness. Through exploring both global and U.S. health systems within a comparative framework, students will learn to analyze the different choices that countries make in providing health coverage and health care to their populations and the challenges and benefits that these choices entail. This is an introductory survey course that enables students to learn essential concepts in each topic area.

Class Notes: Open only to students in the MPH-EPI, MPH-GEN, MPH CLE, and part-time MPH-45 programs.

Please direct all questions about MPH 102 to Ying-Ju Lai, Educational Programs Project Manager, at ylai@hsph.harvard.edu

This is a fully online course with set due dates for each module. Course content includes on-demand lectures and synchronous engagement opportunities.

Requirements: MPH Students Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 1: School-Wide Core Requirement |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Master of Public Health 103 Section: 1

Leadership and Communication (213632)

Ted Witherell

2025 Spring (1.25 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 300

The effective practice of public health in the 21st century requires working with interdisciplinary teams, communicating effectively with diverse audiences, and successfully leading and managing others to achieve better health outcomes for all populations. This course is designed to provide MPH students with an understanding of, and appreciation for, the fundamentals of leadership, management, and governance; cultural competence; and communicating with different audiences. Through case study analysis, experiential exercises, simulations, lectures, practitioner panels, and application activities and assignments, students will explore the opportunities and challenges of being in leadership positions and will develop important skills in negotiation and mediation, budgeting and resource management, systems thinking, and selecting and developing a variety of audience-appropriate communication strategies.

Class Notes: Open only to students in MPH-EPI, MPH-GEN, MPH-CLE, and part-time MPH-45 Programs.

Please direct all questions about this course to Ying-Ju Lai, Educational Programs Project Manager, at ylai@hsph.harvard.edu.

This course is fully online with set due dates for each module. Course content includes on-demand video lectures and synchronous engagement opportunities.

Requirements: MPH Students Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 1: School-Wide Core Requirement |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Master of Public Health 104 Section: 2

Social, Behavioral, and Structural Determinants of Health (213634)

Natalie Slopen

Miranda Mancusi

2025 Spring (1.25 Credits) Schedule: TBD

Instructor Permissions: None Enrollment Cap: 300

Social, Behavioral, and Structural Determinants of Health aims to provide an introduction to the social determinants of health, examine how social determinants influence the health of individuals, communities, and populations, provide an overview of public health intervention and evaluation approaches, and introduce health advocacy. Faculty will offer foundational frameworks and theories, discuss relevant research, explore potential interventions to improve health status and health outcomes, and encourage participants to apply their learning to current US and international contexts and issues. In addition to weekly

discussion boards and check-in quizzes to grapple with the weekly material, students will get to complete two written assignments centered around identifying and addressing a solution to a health disparity in their home community. After learning the basics of how to write a critical communication/advocacy format (i.e. an op-ed), students will author one as the final assignment for this course.

Class Notes: Open only to students in the MPH-GEN, MPH-EPI, MPH-CLE. and part-time MPH-45 programs.

Please direct all questions about MPH 104 to Ying-Ju Lai, Educational Programs Project Manager, at ylai@hsph.harvard.edu.

MPH 104 Winter Session is fully online, with asynchronous content and synchronous engagement opportunities.

Requirements: MPH Students Only

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Not Available for Cross Registration |
| HSPH: Course Category | Category 1: School-Wide Core Requirement |

## Master of Public Health 300 Section: 1

Online Independent Study (225713)

William Bean

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available.

This independent study is for MPH students in online programs. On campus students will not be permitted to enroll in this independent study course.

Requirements: MPH-GEN, MPH-EPI, MPH-SUM45

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Not Available for Cross Registration |

## Master of Public Health 300 Section: 2

Online Independent Study (225713)

Heather Baer

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available.

This independent study is for MPH students in online programs. On campus students will not be permitted to enroll in this independent study course.

Requirements: MPH-GEN, MPH-EPI, MPH-SUM45

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Not Available for Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

# Molecular Metabolism

## Subject: Interdepartmental

### Interdepartmental 512 Section: 1

Molecular Basis of Nutritional and Metabolic Diseases (190812)

Sheng Hui

Chih-Hao Lee

2025 Spring (2.5 Credits) Schedule: T 0200 PM - 0330 PM
F 0200 PM - 0330 PM

Instructor Permissions: Instructor Enrollment Cap: 1

Students have an opportunity to review and analyze key papers that provide physiological and molecular evidence that bears on a topic of current interest in human nutrition and related disorders. Additionally, students learn skills necessary for critical thinking, and oral and written presentations.

Course Note: HSPH degree candidates only.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | BPH, NUT NE
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |
| Course Search Attributes | Display Only in Course Search |
| HSPH: Classification | Even Year Class |
| eForm Autosubmitter | Auto Submitter |

# Nutrition

## Subject: Nutrition

### Nutrition 202 Section: 1

The Biological Basis of Human Nutrition (190912)

Stephen Juraschek

Abrania Marrero

2025 Spring (5 Credits) Schedule: TR 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 30

This course teaches the biochemistry and metabolism of carbohydrates, fats, proteins, vitamins, and minerals in the context of human disease. Contemporary topics are emphasized. Particular emphasis is given to current knowledge of the mechanisms that may explain the role of diet in the causation and/or prevention of ischemic heart disease, diabetes, obesity, hypertension, and cancer.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | PHS NUT, MPH65 NUT, BPH
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00AM – 1/19/2025 11:59PM
Wave 2 | 1/20/2025 12:00AM – 1/22/2025 11:59PM
Wave 3 | 1/23/2025 12:00AM – Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 206 Section: 1

Nutrition Seminars, Part II (190916)

Walter Willett

2025 Spring (1.25 Credits) Schedule: M 0100 PM - 0150 PM

Instructor Permissions: None Enrollment Cap: 40

Seminar series on current topics in nutrition.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 213 Section: 1

Nutrition Science Translation and Applications (212973)

Aviva Musicus

2025 Spring (2.5 Credits) Schedule: TR 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 20

This course aims to provide practical skills necessary for translating nutrition science research into public health programs and policies. It seeks to answer the question, how can we best use nutrition research to enhance public health. It is designed for Nutrition MPH students, for whom it is a required course; other interested students are welcome. Key topics include: learning to evaluate the scientific literature on human nutrition; learning how nutrition policies and programs are formulated, proposed, adopted, and implemented; and exploring levers of nutrition-related behavioral change. The class includes student presentations on a topic of choice within any of these key areas.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH65 NUT
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00AM – 1/19/2025 11:59PM
Wave 2 | 1/20/2025 12:00AM – 1/22/2025 11:59PM
Wave 3 | 1/23/2025 12:00AM – Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Conditionally Approved | Conditionally Approved Course |

## Nutrition 221 Section: 1

Food Security and Food Programs (224037)

Cindy Leung

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|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | MW 0200 PM - 0330 PM |
| Instructor Permissions: | None | Enrollment Cap: | 24 |

This course is a critical exploration of the issues related to food security and food programs. In particular, we will examine the array of negative health consequences associated with food insecurity over the life course, discuss potential mechanisms underlying these associations, and the influence of federal food programs to address food insecurity and health equity.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 222 Section: 1

Global Food Systems and Nutrition Policy and Practice (225735)

Christopher Golden

Ahmed Raza

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|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | RF 0900 AM - 0330 PM |
| | | | MTW 0900 AM - 1245 PM |
| Instructor Permissions: | None | Enrollment Cap: | 20 |

The grand challenges of today – climate change, hunger, malnutrition and poverty alleviation, among others – will require building scientific and leadership capacities of the next generation of practitioners to tackle the multi-sectoral nature of these problems. With only six years to go to the completion of the Sustainable Development Goals and Agenda 2030, it is imperative that a deliberate effort is made across Harvard University to support students in expediting progress on these societal objectives. To operationalize this vision, a new course on 'Global Food Systems and Nutrition Policy: science and leadership' is envisioned.

The course will be offered by the Harvard School of Public Health (HSPH) during the January term over the course of one week. It will be a half a semester course worth 2.5 credits at HSPH. The course will be open to all graduate students across various schools at Harvard, namely the Harvard Kennedy School of Government (HKS), the Harvard Graduate School of Education (HGSE), the Harvard Graduate School of Design (GSD), the Harvard Business School (HBS), the Harvard Medical School (HMS) and the Harvard Law School, as well as to students from the Harvard College.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |

## Nutrition 235 Section: 1

Statistical Methods for Microbiome Data Analysis (219681)

Kyu Ha Lee

2025 Spring (2.5 Credits) Schedule: TR 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 30

This course reviews unique characteristics of microbiome data produced by high-throughput sequence technologies. It provides an overview of classic and newly developed statistical methods for the analysis of microbiome data. This course may be of interest to students wishing to develop strong quantitative skills for comprehensive analysis of microbiome data from public health research.

Requirements: Pre-Req: BST201 or ID201 or PHS2000

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |

## Nutrition 250 Section: 1

Precision Nutrition: Dietary intervention studies and nutrition omics (216277)

Iris Shai

Jun Li

2025 Spring (2.5 Credits) Schedule: MTWRF 0900 AM - 1030 AM
MTWRF 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 13

Aim of the course: Developing knowledge and skills for designing, analyzing, and interpreting dietary intervention trials.

Dietary intervention trials have played a key role in establishing the causality between diet or nutrient intake and health outcomes and in the determination of dietary requirements and levels of supplementations to achieve specific outcomes. In this course, we will discuss the concepts and elements of nutritional RCTs, how to design, conduct, analyze, and interpret nutritional RCTs through case studies, and will address novel challenges/opportunities in nutritional RCTs. New technologies such as nutritional omics and the concept of personal or precision nutrition will be discussed. Students will need to read the relevant scientific literature prior to the lectures. Attendance and participation in lectures are required. Upon successful completion of the course, students will have a better understanding on how to plan and design a nutritional RCT and will be familiar with different types of outcome measurements and different analytical approaches.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Nutrition 280 Section: 1

Integrating Nutrition into Clinical Medicine:
The Role of Health Professionals as Change Agents (220087)

Stephen Devries

2025 Spring (1.25 Credits) Schedule: MTWR 0130 PM - 0330 PM
F 0130 PM - 0430 PM

Instructor Permissions: None Enrollment Cap: 32

The connection between diet and patient health is unequivocal, yet nutrition-based interventions in medical practice remain significantly underutilized. The aim of this course is for you to understand the health and economic consequences of the lack of nutrition education and practice in medicine, and to demonstrate the unique potential for physicians and other health care professionals to serve as change agents for effectively integrating nutrition into medical care.
To achieve this aim, we will:
- Examine the key evidence that links diet to both personal and planetary health.
- Review the current status of nutrition education and practice in the United States.
- Explore barriers and feasible solutions to greater incorporation of nutrition in medical practice.
You will learn the foundations of clinical nutrition science and healthy, sustainable diets through condensed, interactive online modules. We will build on this foundation with class dialog, which will emphasize practical strategies for leveraging the role of nutrition in patient care. Finally, as a capstone to your learning, you will prepare and present a plan for making two interventions: 1) a personal change in your own diet and; 2) a plan for making a nutrition-focused systems change in your own (or anticipated future) clinical/work environment.
Read student reviews from NUT 280 here.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Winter Session | Winter Session |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |

## Nutrition 300

Independent Study (190930)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of

students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses. Independent study work can include laboratory studies, projects in applied nutrition, library research, or the following special topic listed under NUT 301.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Independent Study | HSPH Independent Study 300 |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

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## Nutrition 300 Section: 002

Independent Study (190930)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses. Independent study work can include laboratory studies, projects in applied nutrition, library research, or the following special topic listed under NUT 301.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Independent Study | HSPH Independent Study 300 |

## Nutrition 300 Section: 003

Independent Study (190930)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses. Independent study work can include laboratory studies, projects in applied nutrition, library research, or the following special topic listed under NUT 301.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| HSPH: Independent Study | HSPH Independent Study 300 |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Nutrition 300 Section: 004

Independent Study (190930)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of the regular courses. Independent study work can include laboratory studies, projects in applied nutrition, library research, or the following special topic listed under NUT 301.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Independent Study | HSPH Independent Study 300 |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 1

Research (190935)

Alberto Ascherio

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 13

Research (190935)

Edward Giovannucci

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Nutrition 350 Section: 14

Research (190935)

Edward Giovannucci

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Nutrition 350 Section: 15

Research (190935)

Edward Giovannucci

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 16

Research (190935)

Frank Hu

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

## Nutrition 350 Section: 17

Research (190935)

Frank Hu

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 18

Research (190935)

Frank Hu

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 19

Research (190935)

Eric Rimm

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Nutrition 350 Section: 2

Research (190935)

Alberto Ascherio

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Nutrition 350 Section: 20

Research (190935)

Eric Rimm

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 21

Research (190935)

Eric Rimm

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 25

Research (190935)

Stephanie Smith-Warner

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Nutrition 350 Section: 26

Research (190935)

Stephanie Smith-Warner

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Nutrition 350 Section: 27

Research (190935)

Stephanie Smith-Warner

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

## Nutrition 350 Section: 28

Research (190935)

Meir Stampfer

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Nutrition 350 Section: 29

Research (190935)

Meir Stampfer

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

## Nutrition 350 Section: 3

Research (190935)

Alberto Ascherio

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Nutrition 350 Section: 30

Research (190935)

Meir Stampfer

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 31

Research (190935)

Walter Willett

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Nutrition 350 Section: 32

Research (190935)

Walter Willett

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 33

Research (190935)

Walter Willett

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Nutrition 350 Section: 37

Research (190935)

Jorge Chavarro

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 38

Research (190935)

Jorge Chavarro

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Nutrition 350 Section: 39

Research (190935)

Jorge Chavarro

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Nutrition 350 Section: 42

Research (190935)

Josiemer Mattei

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Nutrition 350 Section: 43

Research (190935)

Josiemer Mattei

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 44

Research (190935)

Josiemer Mattei

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 45

Research (190935)

Christopher Golden

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Nutrition 350 Section: 46

Research (190935)

Christopher Golden

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Nutrition 350 Section: 48

Research (190935)

Erica Kenney

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |

## Nutrition 350 Section: 49

Research (190935)

Erica Kenney

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 50

Research (190935)

Erica Kenney

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Nutrition 350 Section: 54

Research (190935)

Qi Sun

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 55

Research (190935)

Qi Sun

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Nutrition 350 Section: 56

Research (190935)

Qi Sun

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |

## Nutrition 350 Section: 61

Research (190935)

Sheila Isanaka

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

## Nutrition 350 Section: 62

Research (190935)

Sheila Isanaka

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | YES |

## Nutrition 350 Section: 63

Research (190935)

Sheila Isanaka

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Nutrition 350 Section: 7

Research (190935)

Christopher Duggan

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 8

Research (190935)

Christopher Duggan

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

## Nutrition 350 Section: 81

Research (190935)

Shilpa Bhupathiraju

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |

## Nutrition 350 Section: 82

Research (190935)

Shilpa Bhupathiraju

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Nutrition 350 Section: 83

Research (190935)

Shilpa Bhupathiraju

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 2: Required Course |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Nutrition 350 Section: 9

Research (190935)

Christopher Duggan

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

# Subject: Interdepartmental

## Interdepartmental 214 Section: 1

Nutritional Epidemiology (190750)

Deirdre Tobias

Walter Willett

2025 Spring (2.5 Credits) Schedule: F 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 49

Reviews methods for assessing the dietary intake of populations and individuals. Students gain experience in the actual collection, analysis and interpretation of dietary intake. The course also reviews several specific diet/disease relationships, integrating information from international studies, secular trends, clinical trials, analytical epidemiology, and animal experiments.

Course Prerequisites: EPI and BST core (ex. EPI201 and BST201 or ID201. PHS2000 fulfills BST requirement and can be taken concurrently.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | PhD PHS NUT, DrPH
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00AM – 1/19/2025 11:59PM
Wave 2 | 1/20/2025 12:00AM – 1/22/2025 11:59PM
Wave 3 | 1/23/2025 12:00AM – Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Pre-requisites: (EPI200 or EPI201 or EPI208 or EPI500 or ID201 or ID207) AND (BST201 or BST202&203 or BST206&207 or BST206&208 or ID201 or ID207 or PHS 2000A). PHS 2000A may be taken concurrently.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |

## Interdepartmental 220 Section: 1

An Introduction to Planetary Health (215725)

Christopher Golden

2025 Spring (2.5 Credits) Schedule: W 0345 PM - 0515 PM

Instructor Permissions: Instructor Enrollment Cap: 50

Over the past half century, the collective impact of humanity on the structure and function of Earth's natural systems has increased exponentially changing the biophysical conditions that support human life. As a result, we have entered a new epoch called the Anthropocene. Very rapid human population growth combined with even more rapid growth in per capita consumption are driving an extraordinary transformation of most of Earth's climate system, its oceans, land cover, biogeochemical cycles, biodiversity, and coastal and fresh water systems. These are the biophysical systems that underpin global food production, our exposure to infectious disease and natural hazards, and the habitability of the places where we live. There is growing concern that global environmental change is likely to be a major driver of the burden of disease over the coming century. As the pace and scale of human impacts on Earth's natural systems continues to grow, there is increasing interest in understanding and quantifying the implications of these accelerating changes for human health. Recently this field has been termed "planetary health." This course is geared toward graduate students from all schools, but open to passionate

undergraduates interested in exploring the implications of global environmental change on nutrition, infectious disease, mental health, and other domains of wellbeing. Throughout the course of the semester, students will engage in diverse materials from many types of examples of planetary health research, from nutrition and mental health, to infectious and non-communicable diseases. We will tease out common themes around how changes in the structure and function of natural systems lead to impacts on different dimensions of human health. As we approach these case studies, students will be engaged in active processing of the material and in-class discussions to understand parallel themes from each successive week.

Class Notes: Course Requirements: Please request instructor permission to enroll in this course. Preference given to students in the Climate and Planetary Health Concentration and PhD students.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |

# Social and Behavioral Sciences

## Subject: Social & Behavioral Sciences

### Social & Behavioral Sciences 202 Section: 1

Child Psychiatric Epidemiology (211074)

Henning Tiemeier

2025 Spring (2.5 Credits) Schedule: MW 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 32

This course takes an epidemiological and public health approach to child psychiatry and development with less emphasis clinical problems. Epidemiological research advances and challenges in key developmental disorders such as autism, aggression, ADHD and anxiety are discussed. Child psychiatry is unique in that social disadvantage, mother-child interaction, peer-relations, brain development and genetics all are important factors, psychometric challenges like assessment, multi-informant and reverse causality are discussed as are interventions and public health impact.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |
| HSPH: Classification | Even Year Class |

## Social & Behavioral Sciences 203 Section: 1

Program Planning: Community Health Assessment and Prioritization (211147)

Rebekka Lee

| | | | |
|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | MW 0345 PM - 0515 PM |
| Instructor Permissions: | None | Enrollment Cap: | 40 |

Provides an introduction to public health planning. Applies social science principles to community assessment, data collection, and prioritization. Foci will include identifying health-related needs and assets for individuals, communities, and organizations and will discuss the various challenges that practitioners encounter when doing work "on the ground". There will be a strong emphasis on community involvement throughout the course.
Course activities: Assigned reading with participation in discussion and classroom-based application exercises, individual assignments, group project to develop a health assessment.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | HSB-65
Wave 2 | HSB-65
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: HSB-65 students may enroll. All others must petition to enroll.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |

## Social & Behavioral Sciences 204 Section: 1

Program Implementation and Evaluation (211148)

Rebekka Lee

2025 Spring (2.5 Credits) Schedule: MW 0345 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 40

Provides an introduction to public health intervention implementation and evaluation in applied settings. Foci will include health-related intervention for individuals, communities, organizations and will discuss the various challenges that practitioners encounter when conducting this work "on the ground". There will be a strong emphasis on community involvement throughout the course.
Course Activities: Assigned reading with participation in discussion and analysis of local case examples applied individual application exercises, logic models and workplans, group project to design an intervention and evaluation plan within a grant proposal.

Class Notes: SBS 204 builds off SBS 203, so students who request permission to take SBS 204 must already be enrolled in SBS 203.

Requirements: HSB-65 students may enroll. All others must petition to enroll.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 2: Required Course |

## Social & Behavioral Sciences 210 Section: 1

Introduction to Dissemination and Implementation Science (207018)

Shoba Ramanadhan

2025 Spring (2.5 Credits) Schedule: TR 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 25

Increasing the adoption, implementation, and sustainment of evidence-based programs, practices, and policies is critical for improving public health and addressing health disparities. The field of dissemination and implementation (D&I) science provides the theories and methods to understand and influence the path between evidence and action.

This introductory course will provide you with an overview of theories and methods to influence the pathway between evidence and action in a range of practice, policy, and public health settings. Given that D&I science

sits at the intersection between research and practice, the course addresses important topics in the areas of theory and methods in tandem with practical skills for conducting D&I research and practice-based projects. This balance is reflected in the course readings and lectures as well as the assignments. The course is intended for Masters- and Doctoral-level students. Topics addressed include the motivation for and terminology of D&I science; designs, methods, and measures; applications of D&I science in clinical, community/public health, and policy settings; partner engagement; and emerging issues.

Class Notes: Students outside of HSPH must request instructor permission to enroll in this course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| HSPH: Indpt. Study / Research | NO |

## Social & Behavioral Sciences 211 Section: 1

Public Health in Action: Strategies for Policy, Advocacy, and Communication (207019)

Mary Jean Brown

2025 Spring (2.5 Credits) Schedule: TR 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 24

This practical course will help you build the strategic skills needed by leaders in public health settings. It will provide you with the opportunity to synthesize learning from previous course work in biostatistics, epidemiology, program evaluation, and ethics and develop policy, advocacy, and communication skills related to the practice of public health. The course is broken up into three broad sections of 1) assessment by defining the evidence base underlying a specific issue or condition and identifying the data supporting implementation of a program or policy; 2) policy development through the education of policy makers and the public and techniques for process of health policy analysis using ethical frameworks and 3) assurance by linking people to needed health services and research for innovative solutions to health problems.

To maximize the practical nature of the course, you will be asked to select one area or issue affecting the public's health that you will carry through your coursework. Additional guidance will be provided in class, but you may also meet with the instructor prior to the first day of class to discuss potential topics. Subject matter familiarity is welcome when choosing a topic, but not required.

Ultimately, this course is designed to give students practical experience in preparation for internships in the Spring or Summer semesters, or as a follow-up to an internship completed in the previous Summer. Students will use writing and editing to sharpen communication skills, translate data, and use research to inform policy and program development.

Class Notes: A course materials fee may apply for this course. An upper estimate is listed below, and the final materials fee will be communicated to enrolled students at the beginning of the term. For more information

and a list of past years' materials fees for the current semester's courses, please visit the Curriculum Center website.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |

## Social & Behavioral Sciences 213 Section: 1

The Arts of Communication (225900)

Lawrence Quartana

2025 Spring (2.5 Credits) Schedule: MW 1130 AM - 0100 PM
M 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 37

Today's public health leaders must communicate clearly, persuasively, and thoughtfully to a variety of audiences. This course is designed for people who want to lead and communicate well in a world characterized by complex issues. Its principal goal is to strengthen the capacity of each student to speak so that what they say is heard, understood, and acted upon.

The course will help students find their authentic voice, employ standard elements of rhetoric to make strong arguments, speak with eloquence, passion, and confidence, and articulate empathy and understanding for different perspectives. Along the way, this course will address various aspects of public communication: speaking on the spot; addressing controversial topics and tough audiences; framing the debate; storytelling; and using humor and emotion. Students are expected to read selected articles ("readings") and view selected videos ("viewings") in preparation for class, engage fully in class discussions, deliver short speeches, and provide written feedback to their peers. Speech assignments will require students to develop clear, substantive public messages that exhibit intellect, passion, and authenticity.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| eForm Autosubmitter | Auto Submitter |

## Social & Behavioral Sciences 214A Section: 1

Developmental Disabilities II: Value, Policy, and Change (222712)

Jason Fogler

| | | | |
|---|---|---|---|
| 2025 Spring (0.5 Credits) | | Schedule: | F 0800 AM - 1000 AM |
| Instructor Permissions: | None | Enrollment Cap: | 30 |

The course focuses on the community, system and leadership components of the developmental disabilities field. It draws from, but is independent of SBS 212. Course materials are presented by leading experts in the field who will provide the content for each session. Issues of systems change and perspective is maintained.
Course note: The course is held at 2 Brookline Place, 5th Floor, Conference Room #598
Grade and Credit Units Note: SBS 214 is a multi-session class comprised of two parts: Part A in the Winter and Part B in the Spring. Students only receive a grade in SBS 214 after they have completed both Part A and Part B.
At the end of WinterSession, students will receive an "IP" ("in progress") grade in SBS 214A. This is a non-credit-bearing placeholder grade that will remain on the student's transcript until they receive a final grade at the end of the Spring term. When the Spring grades are posted, the student's final grade will replace the "IP" grade on the transcript, and the transcript will reflect the full 2.5 credits the student earned from SBS 214 A + B.

| | |
|---|---|
| Class Notes: | SBS 214 (Part A and Part B together) will run from January 6, 2025 to April 25, 2025. |
| Requirements: | Students outside of HSPH must request instructor permission to enroll in this course |

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH:Year Long Course | HSPH:Year Long Course |
| HSPH: Course Category | Category 3: Essential Course |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 214B Section: 1

Developmental Disabilities II: Value, Policy, and Change (222713)

Jason Fogler

| | | | |
|---|---|---|---|
| 2025 Spring (2 Credits) | | Schedule: | F 0800 AM - 1000 AM |
| Instructor Permissions: | None | Enrollment Cap: | 30 |

The course focuses on the community, system and leadership components of the developmental disabilities field. It draws from, but is independent of SBS 212. Course materials are presented by leading experts in the field who will provide the content for each session. Issues of systems change and perspective is maintained.
Course note: The course is held at 2 Brookline Place, 5th Floor, Conference Room #598
Grade and Credit Units Note: SBS 214 is a multi-session class comprised of two parts: Part A in the Winter and Part B in the Spring. Students only receive a grade in SBS 214 after they have completed both Part A and Part B.
At the end of WinterSession, students will receive an "IP" ("in progress") grade in SBS 214A. This is a non-

credit-bearing placeholder grade that will remain on the student's transcript until they receive a final grade at the end of the Spring term. When the Spring grades are posted, the student's final grade will replace the "IP" grade on the transcript, and the transcript will reflect the full 2.5 credits the student earned from SBS 214 A + B.

Class Notes: SBS 214 (Part A and Part B together) will run from January 6, 2025 to April 26, 2025.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH:Year Long Course | HSPH:Year Long Course |

## Social & Behavioral Sciences 219 Section: 1

High-Risk Behaviors: Epidemiology and Prevention Strategies (191122)

Vaughan Rees

2025 Spring (2.5 Credits) Schedule: TR 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 30

This course examines behaviors that place an individual at higher risk of injuries and mortality, including substance abuse, violence, and risky sexual behaviors. With a focus on adolescent risk behavior, the course covers developmental and environmental factors that drive these behaviors, as well as the design, implementation, and review of theory-guided, evidence-based preventive interventions. Students are guided in the development of a prevention intervention for a chosen adolescent problem behavior.
Course activities: Term paper, group presentation.
Course note: Minimum enrollment of 10.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 222 Section: 1

Social Services for Children, Adolescents and Families (191125)

Peter Maramaldi

2025 Spring (2.5 Credits) Schedule: TR 0800 AM - 0930 AM

Instructor Permissions: None Enrollment Cap: 16

SBS 222 demonstrates the crucial role of federal and state governments to advance the health and well-

being of children and families in the United States. The course begins with a historical overview of how political forces driven by power and privilege systematically led to the oppression of populations of vulnerable children. While reviewing the constellation of current social services, participants will study progressive movements that both succeeded and failed to provide families with opportunities to overcome social injustices and rise from the ill effects of poverty. Students will examine current political tensions and partisan strategies that structure the content and delivery of social services. Assignments will require individuals to prepare data-driven briefings and op-eds that take a position on legislation and programs relevant to women, children, adolescents, and families. Briefing topics may include Executive Orders or legislation related to topics such as: immigration, poverty, childhood trauma, historical trauma of marginalized populations, institutional racism, adoption, foster care, family and community violence, reproductive rights, childcare, social determinants of neurological development, mental health services for children and other areas of student interest. Social services will be examined from perspectives representing both sides of the political divide in the 119$^{th}$ Congress commencing on January 3, 2025. Particular attention will be given to course-related Execute Orders following the November '24 Presidential election. Select guest speakers from government or NGOs will present innovative and novel approaches to service delivery. In addition, each guest speaker will briefly speak about their career trajectory in human services.
Course Activities: Seminar discussion based on history, current political trends and policy, student-led briefings, and simulated in-class political discourse that reaches into political and ideological divides.

Class Notes: In-class presentations, briefings, and discourse between class meetings:

Participants are required to research and prepare material for class discussions and debate simulations. Participants are expected to juxtapose opposing views on issues across political and ideological divides.
Guest Lecturers:
Throughout the semester, guest lecturers from government, industry, or healthcare may present on innovations in service delivery aims to enhance understanding of how social services came to exist, currently operate, and the ways in which they fulfill their stated goals—or fail to do so.

The material presented in this course should complement maternal and child health background in domestic policy and services. Students are encouraged to think of improved and more effective approaches to service delivery, and to become actively involved in local and national policy debates and political discourse throughout their professional careers. Students will be encouraged to seek out opposing viewpoints on issues related to services and the welfare of children, youth and families in order to become more effective advocates and influencers.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |

## Social & Behavioral Sciences 231 Section: 1

Community Intervention Research Methods (191126)

Eve Nagler

2025 Spring (2.5 Credits) Schedule: TR 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 32

SBS231 is an introductory research methods course focused on evaluating community interventions in a variety of settings (e.g., neighborhoods, worksites, schools, community centers or churches). Students will develop skills to design a research proposal, incorporating qualitative and quantitative methods, community perspectives, study design, process evaluation, and using theory to guide intervention development and testing. This course is highly interactive, applying concepts from the readings, guest lectures and students' own experiences, culminating in a research proposal to evaluate a community intervention.
Course Activities: Assigned readings, guest lectures, class participation, working on a team to develop a research proposal.

Class Notes: Students outside of HSPH must request instructor permission to enroll in this course.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |

## Social & Behavioral Sciences 236 Section: 1

Social Epidemiology (212860)

Lisa Berkman

2025 Spring (2.5 Credits) Schedule: TR 0200 PM - 0330 PM

Instructor Permissions: Instructor Enrollment Cap: 20

This course is based on "Social Epidemiology" by Berkman, Kawachi and Glymour. The aim of the course is to build on basic concepts in social epidemiology and epidemiology and social sciences more broadly to examine in a critical and insightful way the evidence and methods for understanding the social determinants of health. It includes readings published since the last edition. The course is oriented towards those students who have a solid foundation in social epidemiology methods so that we can move to more analytical discussions of evidence and novel approaches to identification of the ways in which the social environment influences health. Each class will build on recent selected readings and a chapter from "Social Epidemiology". We will cover social exposures related to socioeconomic status, inequality, discrimination and structural racism, occupation, social networks, social capital, work organization and labor markets, social and economic policies, health behaviors. The course also integrates an understanding of experimental and policy interventions and biological pathways across the substantive domains. It is designed for students with a

strong quantitative background.
Course Prerequisite(s): EPI201 and EPI202 and SBS201 or SBS506. EPI202 may be taken concurrently.
Course Note: If you do not meet the prerequisites, please email lberkman@hsph.harvard.edu describing comparable courses you have taken.

Requirements: Pre-requisites: EPI201 and EPI202 and (SBS201 or SBS506).

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Social & Behavioral Sciences 237 Section: 1

Grief, Loss, and Death: Population Mental Health Perspectives (224033)

Christy Denckla

2025 Spring (2.5 Credits) Schedule: MW 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 20

Public health students have few academic opportunities to engage with the profound themes of grief, loss, and death, even in an era of pandemics, climate change, and widening health disparities. In this 8-week seminar-style course, we apply a population mental health perspective to grief, loss, and death in a self-reflective, supportive environment. Students can expect to acquire an understanding of the core theories and empirical methods in population mental health, grief, loss, and death. Students will apply these acquired skills and knowledge to achieve their learning goals within an ungrading framework.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Conditionally Approved | Conditionally Approved Course |

## Social & Behavioral Sciences 263 Section: 1

Multilevel Statistical Methods: Concept and Application (191132)

S.V. Subramanian

2025 Spring (5 Credits) Schedule: F 0945 AM - 1245 PM

Instructor Permissions: None Enrollment Cap: 25

This course is designed to provide doctoral students with training experience in the concept and application of multilevel statistical modeling. Students will be motivated to think about correlated and dependent data structures that arise due to sampling design and/or are inherent in the population (such as students nested within schools; patients nested within clinics; individuals nested within neighborhoods and so on). The substantive motivation for analyzing such complex data structures would be to make quantitative assessments about the role of contexts (e.g., schools, clinics, neighborhoods) in predicting individual outcomes. In particular, the principles of recognizing and modeling the underlying heterogeneity in average relationships would be emphasized. Linear, non-linear, and multivariate multilevel models will be covered.

Upon completion, students should be able to conceptualize multilevel modeling strategies and to undertake empirical, quantitative multilevel research. The course will be lecture-based with 5 required lab sessions on 1:00-1:50 PM, days to be determined.
Course Activities: Data management, modeling, and analysis; individual assignments; project submission and class participation.
Course Notes: Knowledge of linear regression is required. This course is a requirement for all SBS doctoral students.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | PhD PHS SBS
Wave 2 | DrPH
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Pre-Requisite: EPI 201, EPI 202, and (BST 210 or PHS 2000 A/B)

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 300

Independent Study (191142)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Independent Study | HSPH Independent Study 300 |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

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## Social & Behavioral Sciences 300 Section: 002

Independent Study (191142)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Independent Study | HSPH Independent Study 300 |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 300 Section: 003

Independent Study (191142)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Independent Study | HSPH Independent Study 300 |

## Social & Behavioral Sciences 300 Section: 004

Independent Study (191142)

2025 Spring (0 Credits) Schedule:

Instructor Permissions: None Enrollment Cap: n/a

An opportunity for independent study is offered for interested and qualified students or small groups of students. Arrangements must be made with individual faculty members and are limited by the amount of faculty time available. These programs are open to all students who wish to go beyond the content of regular courses.

Important Information: In order to enroll in an Independent Study course you must submit a proposal form, which will be reviewed by the department and faculty member. To do this, please click on the 'Submit Proposal' button, complete the form, and submit. If your proposal is approved, the course will be added to your Crimson Cart and you will receive a notification email. You will need to go to your Crimson Cart and complete your enrollment into the class (enrollment in the course is not finalized until this step is taken).

Please note that the 'Submit Proposal' button will only be available while the Crimson Cart and the HSPH enrollment period is open.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Independent Study | HSPH Independent Study 300 |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 1

Research (191143)

S. Bryn Austin

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 11

Research (191143)

Karen Emmons

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |

## Social & Behavioral Sciences 350 Section: 12

Research (191143)

Karen Emmons

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 13

Research (191143)

Elizabeth Janiak

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 14

Research (191143)

Elizabeth Janiak

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Social & Behavioral Sciences 350 Section: 15

Research (191143)

Elizabeth Janiak

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 16

Research (191143)

Sabra Katz-Wise

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 18

Research (191143)

Sabra Katz-Wise

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 19

Research (191143)

Steve Gortmaker

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 2

Research (191143)

S. Bryn Austin

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 20

Research (191143)

Steve Gortmaker

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Social & Behavioral Sciences 350 Section: 21

Research (191143)

Steve Gortmaker

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 22

Research (191143)

Ichiro Kawachi

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 23

Research (191143)

Ichiro Kawachi

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Social & Behavioral Sciences 350 Section: 24

Research (191143)

Ichiro Kawachi

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

## Social & Behavioral Sciences 350 Section: 25

Research (191143)

Karestan Koenen

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Social & Behavioral Sciences 350 Section: 26

Research (191143)

Karestan Koenen

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 27

Research (191143)

Karestan Koenen

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 28

Research (191143)

Nancy Krieger

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 29

Research (191143)

Nancy Krieger

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 3

Research (191143)

S. Bryn Austin

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Social & Behavioral Sciences 350 Section: 30

Research (191143)

Nancy Krieger

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Social & Behavioral Sciences 350 Section: 31

Research (191143)

Laura Kubzansky

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 32

Research (191143)

Laura Kubzansky

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 33

Research (191143)

Laura Kubzansky

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 37

Research (191143)

Henning Tiemeier

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Social & Behavioral Sciences 350 Section: 39

Research (191143)

Henning Tiemeier

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Social & Behavioral Sciences 350 Section: 4

Research (191143)

Vaughan Rees

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |

## Social & Behavioral Sciences 350 Section: 41

Research (191143)

Shoba Ramanadhan

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 42

Research (191143)

Shoba Ramanadhan

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Social & Behavioral Sciences 350 Section: 43

Research (191143)

Shoba Ramanadhan

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 5

Research (191143)

Vaughan Rees

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Social & Behavioral Sciences 350 Section: 52

Research (191143)

S.V. Subramanian

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Social & Behavioral Sciences 350 Section: 53

Research (191143)

S.V. Subramanian

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Social & Behavioral Sciences 350 Section: 54

Research (191143)

S.V. Subramanian

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 55

Research (191143)

Kasisomayajula Viswanath

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 56

Research (191143)

Kasisomayajula Viswanath

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 57

Research (191143)

Kasisomayajula Viswanath

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 58

Research (191143)

David Williams

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 59

Research (191143)

David Williams

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Social & Behavioral Sciences 350 Section: 6

Research (191143)

Vaughan Rees

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |

## Social & Behavioral Sciences 350 Section: 60

Research (191143)

David Williams

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Social & Behavioral Sciences 350 Section: 64

Research (191143)

Barbara Gottlieb

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |

## Social & Behavioral Sciences 350 Section: 65

Research (191143)

Barbara Gottlieb

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 66

Research (191143)

Barbara Gottlieb

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 67

Research (191143)

Alan Geller

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 68

Research (191143)

Alan Geller

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 69

Research (191143)

Alan Geller

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Indpt. Study / Research | YES |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 7

Research (191143)

Lisa Berkman

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | YES |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 70

Research (191143)

Natalie Slopen

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 72

Research (191143)

Jarvis Chen

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Social & Behavioral Sciences 350 Section: 8

Research (191143)

Lisa Berkman

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |
| HSPH: Indpt. Study / Research | YES |

## Social & Behavioral Sciences 350 Section: 80

Research (191143)

Sabra Katz-Wise

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| Course Evaluation | Course Evaluation Exempt |

## Social & Behavioral Sciences 350 Section: 81

Research (191143)

Rita Hamad

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |

## Social & Behavioral Sciences 350 Section: 82

Research (191143)

Rita Hamad

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| HSPH: Course Category | Category 4: Elective |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 83

Research (191143)

Rita Hamad

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 350 Section: 9

Research (191143)

Lisa Berkman

2025 Spring (0 Credits) Schedule: TBD

Instructor Permissions: Instructor Enrollment Cap: n/a

For doctoral candidates who have passed their school-wide Oral Qualifying Examination and who are undertaking advanced work along the lines of fundamental or applied research in the department.

Requirements: Course Restricted to students who have passed their Oral Exam

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| ALL: Exclude from Canvas Feed | Exclude from Canvas Feed |
| Course Evaluation | Course Evaluation Exempt |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | YES |

## Social & Behavioral Sciences 360 Section: 1

Maternal and Child Health/Children, Youth and Families Seminar (191144)

Cristina Alonso

2025 Spring (0.63 Credits) Schedule: T 0101 PM - 0150 PM

T -

Instructor Permissions: None Enrollment Cap: 70

This course is taken twice for a total of 1.26 Pass/Fail credits (0.63 in the Fall and 0.63 in the Spring)

Weekly seminar on topics in Maternal and Child Health/Children, Youth and Families.

Required for: doctoral students either majoring or minoring in Maternal Child Health/Children Youth and Families (MCH/CYF) until they defend their thesis; masters students concentrating in MCH/CYF for the duration of their program. The MCF/CYF concentration in open to masters and doctoral students in all departments at the Harvard T.H. Chan School of Public Health.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |

## Social & Behavioral Sciences 500 Section: 1

Developing a Research Protocol (191148)

Steve Gortmaker

2025 Spring (2.5 Credits) Schedule: F 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 10

This course focuses on the process of turning scientific questions into well-defined specific aims, testable

hypotheses, and rigorous methods. Students will develop the Specific Aims, Significance, and Approach sections of an NIH-style grant proposal. Major attention is given to developing research hypotheses and proposing precise methods, including describing the sample, measures, study design, and analytic techniques. Students will have the opportunity to discuss and receive feedback from the course instructor and fellow students at all stages of the proposal writing process, including at a Mock Study Section meeting at the end of the course.

Class Notes: Restricted to PhD-PHS-SBS students.

Requirements: Restricted to PhD-PHS-SBS students. Pre-requisites: PHS2000A, PHS2000B, AND SBS245

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |

## Social & Behavioral Sciences 501 Section: 1

Community-based Participatory Research: Principles, Processes and Practices (191149)

Jocelyn Chu

Ra'Shaun Nalls

2025 Spring (2.5 Credits) Schedule: MW 0200 PM - 0330 PM

Instructor Permissions: Instructor Enrollment Cap: 27

SBS 501

Community-Based Participatory Research (CBPR) is an approach to research that ground practitioners in long-term commitments to co-develop research with community partners, and to build from community strengths and priorities for the purposes of translating research into policy or system-change actions that improve health and health equity (Wallerstein, 2020).

This 2.5 credit seminar course is designed to introduce the principles, processes and practices of CBPR. The course will trace the theoretical roots of participatory and action research traditions and provide students with foundational understanding of the guiding principles and strategies of CBPR, the ethical considerations involved in this approach, and practices that are integral for participating effectively in CBPR. The course focuses on taking a critical stance toward dominant narratives of knowledge production and explores asset-centered approaches and appreciation for multiple ways of knowing to inform the research process. Through discussion based learning, critical reflection and engagement with academic and community guest speakers, students will learn to critically incorporate participatory approaches and frameworks into their public health research and practice.

We want to be clear: CBPR is an approach to research that grounds practitioners in long-term commitments to co-develop research with community partners. SBS 501 emphasizes raising self-awareness and reconsidering held assumptions about research through the practice of critical reflection. We believe this foundational practice is necessary for preparing to engage in participatory research with community partners. This course is not focused on the hands-on application of research methods, qualitative or quantitative, with community partners. SBS 551 (Spring 2) is designed to serve as the applied component for

SBS 501 and builds on the foundational guiding principles, strategies and ethical considerations of participatory and action-oriented research.

Registration by instructor permission only: By January 30, 2025, interested students must request instructor permission in my.harvard and write a brief explanation about their interest in taking this course. Please limit to 3-4 sentences only and submit through my.harvard (not as email to the Instructor). Selected students will be approved by February 3, 2025.

Class Notes: Students outside of HSPH must request instructor permission to enroll in this course.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 502 Section: 1

Mass incarceration and Health in the US (214473)

Monik Botero

2025 Spring (2.5 Credits) Schedule: MW 0530 PM - 0700 PM

Instructor Permissions: None Enrollment Cap: 30

This course reviews the health implication of mass incarceration on individuals and their communities. Although the course will focus on the impact of incarceration, involvement with the criminal justice system more broadly will be discussed. The course will discuss the current state of knowledge, identify key gaps and explore examples of successful interventions to improve health outcomes among criminal justice involved individuals. Various health related implications of criminal justice involvement will be discussed, such as infectious disease, mental health, cardiovascular disease and cancer. A framework grounded in history and critical race theory will be employed in addition to careful consideration of the intersection of race. sex/gender, socioeconomic position and sexual and gender minority status. Methodological concerns and ethical implications of research conducted among individuals while in custody will also be considered. Classes will combine lectures, guest speakers representing key stakeholders and individuals with criminal justice involvement, and student led engagement. This course is appropriate for masters and doctoral level students.

Class Notes: Course restricted to SBS students. Students from outside the SBS Department may submit a petition.

Requirements: HSPH: Pre-requisite EPI 201, Pre- or Co-requisite ID 201

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Not Available for Cross Registration |

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |

## Social & Behavioral Sciences 503 Section: 1

Explaining Health Behavior: Insights from Behavioral Economics (191150)

Ichiro Kawachi

2025 Spring (2.5 Credits) Schedule: MW 0200 PM - 0330 PM

Instructor Permissions: None Enrollment Cap: 60

This course will introduce students to the application of theories from behavioral economics to the field of public health. Individual sessions will cover foundational concepts in behavioral economics, including a) bounded rationality and dual processing; b) prospect theory and loss aversion, c) asymmetric paternalism and the use of default options; d) the problem of inter-temporal choice and addiction; e) the use of incentives vs. commitments to promote behavior change. Examples of questions posed by the class include: "How can we incorporate novel insights from behavioral economics to improve the successful behavior change (e.g. to reduce obesity or promote smoking cessation)?" "How can incentives be crafted to guide consumer choice? For example, "why is a tax on junk foods more effective than subsidies for healthy foods?"

Class Notes: Students outside of HSPH must request instructor permission to enroll in this course.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 4: Elective |

## Social & Behavioral Sciences 508 Section: 1

Successes & Challenges in Health Behavior Change (191155)

Alan Geller

2025 Spring (2.5 Credits) Schedule: MW 1130 AM - 0100 PM

Instructor Permissions: None Enrollment Cap: 60

Many large-scale, population-wide initiatives and campaigns have resulted in profound behavioral changes, including those for tobacco use, sun protection, and reduction of sugar sweetened beverages, to name a few.
We will follow an interconnected path that covers theory and key models, deepens our understanding of successful large-scale public health interventions, delves into the harm reduction/vaping debate, examines the critical importance of organizing and leadership, explores real-world problems with unfunded public health mandates, sees the critical importance of social support for high-risk populations, and closes with sessions on innovations. Much of the class will revolve around active discussion of readings, both in the popular and public health press, and at least four case studies. Each class will be explicitly organized around a case study and/or a lesson learned, some will be new ones, others will hopefully expand upon earlier SBS

lessons.
Overall, this course aims to facilitate opportunities for students to read seminal pieces, contribute to avid discussions on a wide range of public health topics, and expand individual interests. It also seeks to encourage students to grapple with individual and collective lessons from major public health campaigns to build for more improved ones going forward. Accordingly, although the course focuses on cancer prevention initiatives, students should feel free to apply lessons learned to their areas of interest in their assignments.
Course Objectives:
1. Critically synthesize and evaluate criteria for successful population-wide interventions in population health improvement, including cancer control
2. Carefully critique the key components of historically successful large-scale cancer control interventions both for US and internationally (tobacco, skin cancer prevention, SSB laws)
3. Synthesize findings to develop evidence-based recommendations for large-scale, health behavior change interventions seeing the power of multi-level collaborations
4. Enhance practical skills for organizing and leading population-wide interventions

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH45 HSB, MPH65 HSB, PHS SBS
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |

## Social & Behavioral Sciences 509 Section: 1

Health Communication in the 21st Century (191156)

Kasisomayajula Viswanath

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|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | T 0345 PM - 0645 PM |
| Instructor Permissions: | None | Enrollment Cap: | 50 |

This course is designed to provide students in public health and social science with an overview of the theory and research on the role of communication in health in the 21st century. The role of communication in public health will be examined both as a product of everyday interaction with communication platforms including mass media and messages, and its planned use to accomplish particular public health goals. Research examined here looks both at planned and unplanned effects of communication in a variety of health situations representing a range of public health topical concerns.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | MPH45 HSB, MPH65 HSB, PhD PHS NUT
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Social & Behavioral Sciences 514 Section: 1

Reducing Socioeconomic & Racial/Ethnic Inequalities in Health:Concepts, Models, Effective Strategies (191161)

Mary Bassett

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|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | TR 0945 AM - 1115 AM |
| Instructor Permissions: | None | Enrollment Cap: | 40 |

This course will provide a critical overview of conceptual approaches and empirical evidence for interventions that take a structural approach to reducing socioeconomic and racial/ethnic disparities in health. The focus is on the extent to which policies and interventions on the social determinants of health can both improve health and reduce disparities. It considers interventions within the healthcare system, but I emphasize population-based interventions on the social determinants of health in multiple other societal sectors. Attention is also given to the social and political barriers to the development and proliferation of effective interventions to address social disparities in health.

Class Notes: THIS CLASS HAS PRIORITY ENROLLMENT

Priority Wave Groups
Wave 1 | All SBS Students
Wave 2 | Open Enrollment
Wave 3 | Open Enrollment

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Priority Wave Timing
Wave 1 | 1/9/2025 11:00 AM - 1/19/2025 11:59 PM
Wave 2 | 1/20/2025 12:00 AM - 1/22/2025 11:59 PM
Wave 3 | 1/23/2025 12:00 AM - Enrollment Deadline (varies by session)

Any student who does not meet the Wave 1 or Wave 2 criteria can add themselves to the waitlist (if enrollment requirements are met) at any time during the enrollment period. At the beginning of each priority wave, students on the waitlist who meet the Wave's criteria will be automatically enrolled into any remaining seats in the course (pending no time conflicts)

**Cross-Registrants and Non-Degree Students will be enrolled on a space available basis after the enrollment deadline for the course

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 522 Section: 1

Multi-Level Theoretical Approaches to Population Health and Health-Related Behavior Change (211390)

Karen Emmons

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|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | MW 0200 PM - 0330 PM |
| Instructor Permissions: | Instructor | Enrollment Cap: | 18 |

SBS 522 is a foundational course for Social and Behavioral Sciences. The course is predicated on the concept that health and health behavior is shaped by influences at multiple levels, ranging from individual factors to macro-social factors. The course introduces an array of conceptual theories, models, and frameworks across these multiple levels of influence, and examines their role in understanding and improving health –related behavior and population health outcomes. Class discussion and assignments will enable the learner to understand the value of theory for ethical practice, research design, and intervention development. Critical thinking about strengths and limitations of current trends in theory and conceptual frameworks will be encouraged. This course contributes to the theory requirement for the doctoral program in the SBS field of study and is required for student in Public Health Nutrition. Any students who are interested in understanding how to develop interventions at any level of influence may find this course useful.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| HSPH: Indpt. Study / Research | NO |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| eForm Autosubmitter | Auto Submitter |

## Social & Behavioral Sciences 524 Section: 1

From Local to Global Justice: Responses to Structural Inequities and Oppression (223924)

Margareta Matache

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| 2025 Spring (2.5 Credits) | | Schedule: | MW 0945 AM - 1115 AM |
| Instructor Permissions: | None | Enrollment Cap: | 25 |

Systems of oppression are ingrained within the fabric of laws, policies, institutions, cultures, society, permeating all areas of life. Racism is not only a legacy of the past but also a self-preserving system that continuously reinforces itself. Thus, to dismantle oppressions and structural inequities, solutions must extend beyond diversity, equity, and inclusion programs.
Recent experiences and studies regarding the impact of the COVID-19 pandemic have reaffirmed that structural inequities deepen and acquire new dimensions in times of crisis (e.g., economic recession, wars, pandemics). There is an immediate need to develop anti-oppressive and anti-racist responses and create the necessary knowledge and skills to implement and assess them.
In SBS 524 From Local to Global Justice: Responses to Structural Inequities and Oppression, we will examine social change interventions aiming to address oppression and structural inequities, with a particular focus on health. We will unpack a variety of interventions designed and implemented by global institutions, local and national governments, activists, and other stakeholders in varied political, social, and geographic contexts. We will also probe ties between local, national, and global challenges and powerholders.

The added value of SBS 524 lies not only in its global and interdisciplinary approaches but also in its focus on social change interventions that attempt to respond to racism and other systems of oppression.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |

## Social & Behavioral Sciences 535 Section: 1

Global Perspectives on Racism, Poverty, and Power (217492)

Margareta Matache

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|---|---|---|---|
| 2025 Spring (2.5 Credits) | | Schedule: | MW 0945 AM - 1115 AM |
| Instructor Permissions: | None | Enrollment Cap: | 25 |

The course uses interdisciplinary, critical, and global perspectives to study racism and other systems of oppression, poverty, and the disempowerment of peoples subordinated based on race, gender, and class. The sessions include readings regarding the experiences of Black Americans, Burakumin people, Dalit people, Jewish people, Romani people, Palestinians, and other oppressed and racialized peoples.
This is an introductory course examining four main topics to be discussed in separate but interconnected sections: (1) Racism and other systems of oppression; (2) poverty and racialized and gendered poverty; (3) power; and (4) institutional and societal responses to racism and other oppressions.
Racism and other systems of oppression: In this section, we will discuss systems of oppression enforced across various regions of the world. This section pays particular attention to the impact of enduring systems of oppression on access, quality, and outcomes in education and health.
Poverty: The existing measures of poverty provide a necessary but insufficient picture of poverty. International and national institutions operate with robust and assessable frameworks (e.g., multidimensional poverty index or absolute poverty). Yet, these frameworks fail to encompass determinants and dimensions of poverty that are particular to historically oppressed peoples (e.g., multigenerational wealth, neighborhood poverty). Thus, in this section, we will not only discuss the concepts of poverty and multidimensional poverty, but also explore ways to measure intersectional, racialized, and gendered poverty.
Power: The scholarship discusses oppression and racism not only as matters of rights deprivation for the oppressed but also as "inherited advantage in power" for dominant groups. In this section, we will discuss whether and how inherited power is transmitted economically, socially, culturally, and ideologically.
Solutions: In this final section, we will discuss examples of interventions (both successful and ineffective) to address racism and/or racialized and gendered poverty, from people and social movements to state policies and reparations.

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Conditionally Approved | Conditionally Approved Course |
| HSPH: Course Category | Category 4: Elective |
| eForm Autosubmitter | Auto Submitter |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Social & Behavioral Sciences 550 Section: 1

Program Evaluation (191167)

Henning Tiemeier

Mary Jean Brown

2025 Spring (2.5 Credits) Schedule: MTWRF 0900 AM - 0500 PM

Instructor Permissions: Instructor Enrollment Cap: 20

The course will be held during the winter session. The classroom experience will be conducted in coordination with the Centers for Disease Control and Prevention and state and local health agencies. During the first week, an intensive course will be given on the basics of evaluation as well as an introduction to the CDC, and the U.S. public health system. This will include lectures and group work to teach the components of evaluation methodology. For this week, students will be teamed with CDC program officers and public health officials from up to 10 program sites across the country. Teams will work to develop program evaluation methodologies for specific public health issues selected by the state or local health agency.
During the second week of the class, students will continue working with their program sites and CDC project officers and meet with stakeholders and program administrators to refine the evaluation methods for Title V or related Maternal Child Health Programs (MCH) programs. This evaluation plan will be used by the states and the CDC to evaluate their active public health programs for the next 2-3 years.

Class Notes: The MCH Center of Excellence hosts an information session in September, and there is an online application due in early- to mid-October. Interested students should visit the MCH website for further information and updates: https://www.hsph.harvard.edu/mch-center-excellence/cdc-evaluation-course-sbs-550/

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 2: Required Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |

## Social & Behavioral Sciences 551 Section: 1

Community Based Participatory Research: Field Engagement and Practice (219682)

Ra'Shaun Nalls

Jocelyn Chu

2025 Spring (1.25 Credits) Schedule: W 0945 AM - 1115 AM

Instructor Permissions: Instructor Enrollment Cap: 20

This course is designed to serve as the practice component of SBS 501 Community-based Participatory Research: Principles, Processes and Practices and builds on the foundational guiding principles, strategies and ethical considerations of participatory and action-oriented research covered in the prerequisite course.

This 1.25 credit seminar seeks to deepen exploration of equitable and ethical partnerships for research and public health practice with communities, focusing on collaborative engagement processes to support a project co-developed for the course with our community partners. The seminar takes a flipped classroom approach and includes interactive workshop style sessions that involve high-level participation, critical thinking and self-reflection exercises. Classes may take place at the community partner site.
Students are expected to work in groups with a community partner. This includes 1-2 hours/week of out of classroom time expected for group work and meetings with the community partners (this may occur off-campus).

Class Notes: Pre-Requisite: SBS 501; Students must request instructor permission to enroll in this course.

Requirements: Pre-Requisite: SBS 501

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Conditionally Approved | Conditionally Approved Course |
| eForm Autosubmitter | Auto Submitter |

## Social & Behavioral Sciences 945B Section: 1

Applied Practice Experience for Health and Social Behavior (205616)

Clyde Smith

2025 Spring (1.25 Credits) Schedule: F 0945 AM - 1115 AM

Instructor Permissions: Instructor Enrollment Cap: 35

All students completing a Master of Public Health degree must complete an Applied Practice Experience ("Practicum"). This required course is designed to meet both this degree requirement. In the course, students will identify and complete a practicum that will be of value to their professional development and career goals, as well as periodical email updates and reflections to the instructor. Students will also share their practicum experience with their MPH colleagues via a "peer-to-peer" joint learning experience. Class sessions explore the practice of public and community health through case studies, readings and hands-on activities.

This is a year-long course worth a total of 2.5 credits (1.25 in the fall and 1.25 in the spring).

Grade Note: SBS 945 is comprised of two parts: Part A in the Fall and Part B in the Spring. The grade and 2.5 credits are only reflected on the transcript after students have completed both Part A and Part B in the spring. At the end of the Fall term, students will receive an "IP" ("In Progress") grade in SBS 945A. When the Spring grades are posted, the student's final grade will replace the "IP" grade on the transcript, and the transcript will reflect the full 2.5 credits.

Course Requirements: Course restricted to MPH-45 HSB students. This is a required course.

Class Notes: Course Restricted to students in the MPH45 Health and Social Behavior program.

Requirements: Course Restricted to students in the MPH45 Health and Social Behavior program

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| Full Year Course | Indivisible Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 2: Required Course |
| HSPH:Year Long Course | HSPH:Year Long Course |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |
| Course Search Attributes | Display Only in Course Search |

## Social & Behavioral Sciences 980S Section: 1

SBS Doctoral Seminar (218909)

Laura Kubzansky

2025 Spring (1.25 Credits)

Schedule: W 1130 AM - 0100 PM
W 1130 AM - 0100 PM
W 1130 AM - 0100 PM
W 1130 AM - 0100 PM
W 1130 AM - 0100 PM
W 1130 AM - 0100 PM
W 1130 AM - 0100 PM
W 1130 AM - 0100 PM

Instructor Permissions: None

Enrollment Cap: 50

The SBS Doctoral Seminar is designed to provide students with an opportunity to connect across cohorts, discuss topics covered in their doctoral-level coursework in a larger context , present their on-going research for feedback from peers and faculty, lead and participate in a journal club (critical review of published articles), interact with SBS faculty and alumni, and become familiar with research topics under study in SBS, and develop and practice critical professional skills (e.g., research development, science communication). A 90-minute seminar will be held every other week. Content will include student presentations and interactive discussions/presentations led by SBS faculty addressing topics relating to navigating the doctoral program in SBS, the conduct of social and behavioral research in health, and career development. Students will be encouraged to provide input into topics of interest to be covered throughout the year, with additional guidance provided by the faculty instructor. The seminar will meet in-person bi-weekly on Wednesdays from 11:30am-1:00pm and is required for SBS PhD students in their first three semesters (Year 1 Fall and Spring and Year 2 Fall.) SBS PhD students in Years 3 and 4 are also welcome to enroll.

Class Notes: This class will meet every other week, starting on the first Wednesday of the Spring term.

Requirements: HSPH: PW PHS SBS

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| eForm Autosubmitter | Auto Submitter |

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 4: Elective |
| All: Cross Reg Availability | Available for Harvard Cross Registration |

## Subject: Women, Gender & Health

### Women, Gender & Health 207 Section: 1

Advanced Topics in Women, Gender and Health (191277)

Sabra Katz-Wise

2025 Spring (1.25 Credits) Schedule: W 0945 AM - 1115 AM

Instructor Permissions: None Enrollment Cap: 20

This interdepartmental, interdisciplinary seminar will provide a forum to analyze how diverse gender-related constructs (including identity, expression, and behavior) influence public health research and practice. Invited speakers will give examples of cutting-edge issues in public health research and practice, focusing on how gender contributes to understanding and intervening on population distributions of health, disease, and well-being, with an eye towards intersectionality in relation to racism, classism, heterosexism, cissexism, and other forms of social inequity and context. The structure of the course combines lectures by guest speakers who are working in the field of women, gender, and health, as well as in-depth student-led discussions of assigned readings/media. Students will create brief teaching examples that use gender-based analysis while cultivating core skills in public health.
Course Note: Minimum enrollment of 5; maximum enrollment of 20.

Class Notes: Prerequisites: Must have previously taken a WGH course, or by instructor permission.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| HSPH: Course Category | Category 3: Essential Course |
| HSPH: Indpt. Study / Research | NO |
| eForm Autosubmitter | Auto Submitter |

### Women, Gender & Health 220 Section: 1

Sexuality and Public Health (191280)

S. Bryn Austin

2025 Spring (2.5 Credits) Schedule: R 0345 PM - 0645 PM

Instructor Permissions: None Enrollment Cap: 24

This course provides an introduction to the breadth of research and research methods in the study of sexuality and sexual health promotion in diverse contexts and populations. Students will develop skills needed to carry out epidemiologic research and community-based interventions related to sexual health

promotion. Students will be introduced to ways to integrate conceptual models, methodologies, and perspectives from a variety of fields to inform a unique transdisciplinary, holistic approach to public health promotion of sexual health. Class session format includes lectures, discussions, case studies, individual and group presentations, and in-class writing assignments.

Course Note: Minimum enrollment of 10.

Requirements: Students outside of HSPH must request instructor permission to enroll in this course

Additional Course Attributes:

| Attribute | Value(s) |
|---|---|
| HSPH: Course Category | Category 3: Essential Course |
| All: Cross Reg Availability | Available for Harvard Cross Registration |
| eForm Autosubmitter | Auto Submitter |
| HSPH: Indpt. Study / Research | NO |

## Women, Gender & Health 250 Section: 1

Embodying Gender: Public Health, Biology and the Body Politic (191281)

Nancy Krieger

2025 Spring (2.5 Credits) Schedule: MTWRF 1000 AM - 1230 PM
MTWRF 0200 PM - 0430 PM
R 0200 PM - 0515 PM

Instructor Permissions: None Enrollment Cap: 16

This course will focus on the social and biological processes and relationships from interpersonal to institutional involved in embodying gender, as part of shaping and changing societal distributions of, including inequities in, health, disease, and well-being. It will consider how different frameworks of conceptualizing and addressing gender, biological sex, and sexuality (that is, the lived experience of being sexual beings, in relation to self, other people, and institutions) shape questions people ask about and explanations and interventions they offer for a variety of health outcomes. Examples span the lifecourse and historical generations and include chronic non-communicable diseases, HIV/AIDS, occupational injuries, reproductive health, mental health, and mortality, each analyzed in relation to societal and ecological context, global health policy and human rights, work, and the behaviors of people and institutions. In all these cases, issues of gender and sexuality will be related to other societal determinants of health, including social class, racism, and other forms of inequality. The objective is to improve praxis for research, teaching, policy, and action, so as to advance knowledge and action needed for producing sound public health policy and health equity, including in relation to gender and sexuality.

Course Note: Prerequisite: WGH 201, WGH207, WGH210, WGH211, WGH220, SBS506, SBS507, ANTHRO1882, HLS2242, HLS2513, HLS2540, or another prior course on gender analysis and health (with instructor's approval)

Requirements: Prerequisite: WGH 201, WGH207, WGH210, WGH211, WGH220, SBS506, SBS507, ANTHRO1882, HLS2242, HLS2513, HLS2540

Additional Course Attributes:

| Attribute | Value(s) |
| --- | --- |
| HSPH: Course Category | Category 4: Elective |
| eForm Autosubmitter | Auto Submitter |